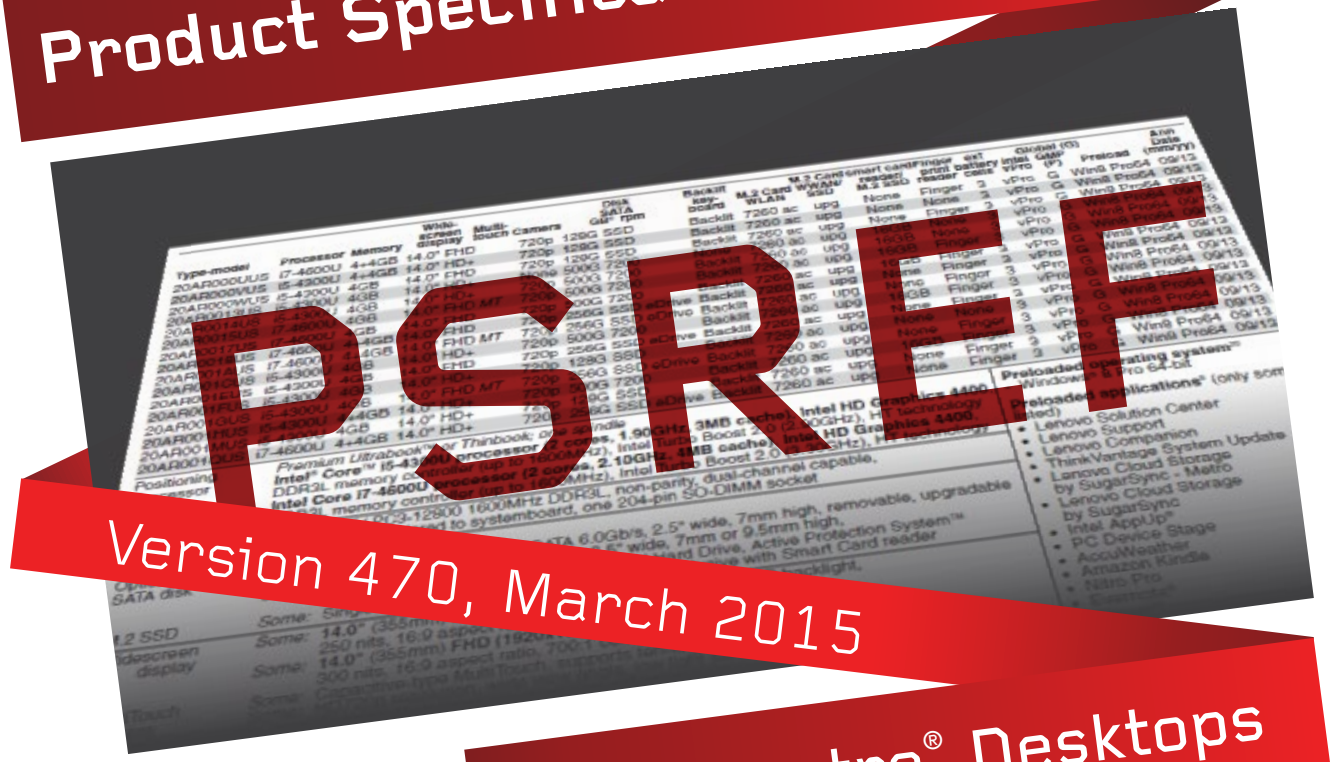
ThinkCentre U.S.

Product Specifications Reference



Version 470, March 2015

ThinkCentre® Desktops

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Summary of Changes

This section describes the technical changes made in this edition.
This edition might also include minor corrections and editorial changes which are not identified.

March 25, 2015 - Version 470

Additions in this update

►New model(s)

ThinkCentre M93z AIO new models announced March 2015
ThinkCentre M73z AIO new models announced March 2015

ThinkCentre - Lenovo Quick Pick Accessories Photography

Recently Launched Think Accessories

ThinkPad Compact Bluetooth Keyboard with Trackpoint
(PN: 0B47189)

Lenovo Wireless TouchPad for Windows 8
(PN: 0A33909)

ThinkPad Noise Cancelling Earbuds
(PN: 0B47313)

Additional Think Accessories

ThinkPad USB 3.0 Portable Secure HDD (500GB , 750GB, 1TB)
(PN: 0A65619, 0A65616, 0A65621)

Kensington MicroSaver Security Cable Lock from Lenovo
(PN: 73P2582)

Lenovo Ultraslim Wireless Keyboard and Mouse Combo
(PN: 0A34032)

AMPLIFY YOUR DO MACHINE

LENOVO THINK ACCESSORIES

ThinkCentre - Lenovo Quick Pick Accessories

Lenovo Quick Pick (**http://www.lenovoquickpick.com/**) is an options compatiblity configurator for Lenovo systems.

For more information on the various ThinkCentre systems, please see below :

ThinkCentre M32

M32 Thin Client 10BM/10BV
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m32-thin-client

ThinkCentre M73

M73 Tiny 10AX/10AY
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m73-tiny

M73 Small 10B4/10B5/10B6/10B7
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m73-sff

M73 Tower 10B0/10B1/10B2/10B3
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m73-tower

ThinkCentre M78

M78 Small 10BS/10BT/10BU
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m78-sff

M78 Tower 10BN/10BQ/10BR
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m78-tower

ThinkCentre M79

M79 Small 10CT/10CU/10CV/10CW
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m79-sff

M79 Tower 10CN/10CQ/10CR/10CS
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m79-tower

ThinkCentre M83

M83 Small 10AH/10AJ/10AM/10AN
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m83-sff

M83 Tower 10AG/10AK/10AL/10BE
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m83-tower

ThinkCentre M93/M93p

M93/M93p Tiny 10A4/10A5/10AA/10AB
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m93-m93p-tiny

M93/M93p Small 10A2/10A3/10A8/10A9
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m93-m93p-sff

M93/M93p Tower 10A0/10A1/10A6/10A7
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m93-m93p-tower

ThinkCentre E73

E73 Small 10AU/10AW/10BF/10BG
www.lenovoquickpick.com/usa/system/thinkcentre/e-series/e73-sff

E73 Tower 10AS/10AV
www.lenovoquickpick.com/usa/system/thinkcentre/e-series/e73-tower

ThinkCentre M73z

M73z AIO 10BB/10BC
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m73z-aio

ThinkCentre M93z

M93z AIO 10AC/10AD/10AE/10AF
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m93z-aio

ThinkCentre Edge 62z

Edge 62z AIO 2117
www.lenovoquickpick.com/usa/system/thinkcentre/e-series/edge-62z-aio

ThinkCentre E63z

E63z AIO 10D4/10D5/10D6/10D7
www.lenovoquickpick.com/usa/system/thinkcentre/e-series/e63z-aio

ThinkCentre E93z

E93z AIO 10B8/10B9/10BA/10BH/10BJ/10BK
www.lenovoquickpick.com/usa/system/thinkcentre/e-series/e93z-aio

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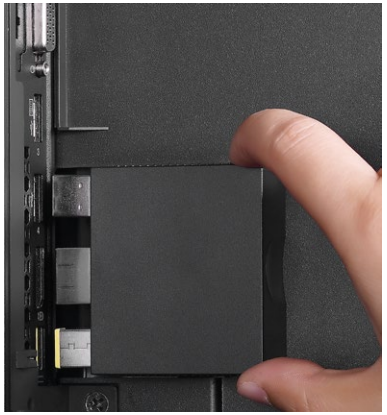
ThinkCentre TIO 23

ThinkCentre TIO 23 with optional 9.5mm ODD

ThinkCentre TIO 23 with optional Tiny

ThinkCentre TIO 23

ThinkCentre TIO 23 with optional 9.5mm ODD



3-in-1 cable (USB / DP / Power)

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ThinkCentre Tiny-in-One (TIO) 23

Model	10DQPAR6US
Form factor	Tiny-in-One, offers a full All-In-One experience when optional Tiny slots into the back of TIO 23, clean cabling and effortless setup
Compatible Tiny:	M93/p Tiny, M83 Tiny, M73 Tiny, or M53 Tiny * Processor, memory, storage, operating system, WLAN, Bluetooth, Keyboard, mouse, etc., depand on the Tiny installed (optional)
Panel	TFT-LCD, twisted nematic (TN), White LED backlight
Viewable image size	23.0" (584.2mm) diagonal
Max view area (W x H)	20.05" x 11.28" / 509.2mm x 286.4mm
Optimum resolution	**1920x1080**
Aspect ratio	16:9
Pixel pitch (mm)	.265mm
Dot/Pixel per Inch	96 dpi
Brightness	250 nits or cd/m^2 (typical)
Contrast ratio	1000:1 (typical)
Pixel response time	5ms (typical)
Color gamut	72%
Anti-reflective	Anti-glare
Horizontal frequency	30 to 83kHz
Vertical frequency	50 to 75Hz
Viewing angle at 10:1 CR	170° (+/- 85°) horizontal, 160° (+/- 80°) vertical
Preset resolutions	640x350 @ 70Hz 640x480 @ 60Hz, 66Hz, 72Hz, 75Hz 720x400 @ 70Hz 800x600 @ 60Hz, 72Hz, 75Hz 1024x768 @ 60Hz, 70Hz, 75Hz 1152x864 @75Hz 1280x800 @ 60Hz 1280x1024 @ 60Hz, 72Hz, 75Hz 1366x768 @ 60Hz 1440x900 @ 60Hz, 75Hz 1600x1200 @ 60Hz, 70Hz, 75Hz 1680x1050 @ 60Hz 1920x1080 @ 60Hz
Presets / user settings	Presets: 25; user settings: 25
On screen display	On screen display with digital user controls (8 languages)
Control features	Mode-switching (TIO mode / standalone monitor mode, switches video/ audio/USB input source) / Back button, Left shift button, Right shift / Brightness button, Selection button / Menu button, Power button
Tiny-in-One Power On	Pressing Alt + P on keyboard or pressing Power button positioned on TIO can turn on both TIO and Tiny (only some Tiny support, see compatible list)
USB ports	*Front:* two USB 3.0 (only when M93/p or M83 installed) or two USB 2.0 *Side:* two USB 2.0, one USB 2.0 upstream port (connect to PC), one mini USB 2.0 port for accessories (on top) * The USB ports are only available when a Tiny is istalled or a PC is connected via USB upstream port
Monitor connectors	One DisplayPort port, version 1.2
3-in-1 Cable	Undetachable 3-in-1 cable (Power connecter, USB, DisplayPort), only for connecting to Tiny installed (optional)
Audio port	one headphone / microphone combo jack (stereo, 3.5mm)
Security	Security keyhole for attachment of optional cable lock (Kensington® lock compatible), locks optional Tiny and ODD box with TIO 23 together, more security features offered by Tiny installed (optional)

Mechanical

Dimensions	TIO 23 without stand	TIO 23 with stand
W x D x H (inch)	22.17 x 2.74 x 14.88	22.17 x 9.84 x 16.15 - 20.48
W x D x H (mm)	563 x 69.5 x 378	563 x 250 x 410.14 - 520.14

Weight (approximately)	TIO 23 with stand	TIO 23 with Tiny, stand, and ODD box installed
lb / kg	15.4lb / 7kg	18.9lb / 8.58kg

Mounting features	Wall or desk mounting using the extend arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)
Adjustable stand	*Tilt:* 35° back, -5° forward; *lift:* 4.3" (110mm); *swivel:* +/-45°
Power supply	90 watts AC/DC adapter, 88% PSU, universal
Power consumption	22 watts typical, 45 watts maximum, <0.5 watts standby / suspend
Limited warranty[3]	**3-years**, Customer Carry-In Exchange (CCE) via Rapid Replacemen**,** IWS (International Warranty Service[9]) / service upgrades available *For Lenovo service upgrade options, please go to S-TC sheet*
VESA-compliant[2]	VESA DDC2B/CI, VESA DPMS-compliant
Ergonomics	ISO 9241-307
Emission standards	MPR-2, FCC Class B
Environmental	TCO (TCO Certified Edge 1.1), WEEE, RoHS, ENERGY STAR® 6.0 EPEAT™ Gold rating, ULE, TUV
Windows certifications	Windows 7, Windows 8, and Windows 8.1 certified
Ship group	TIO 23 (Monitor), detachable stand, Information flyer, Reference and driver CD, AC/DC power adapter, power cord, quickly-released screw
Accessories	For compatible accessories, please go to TC-AQP sheet

Compatible Tiny				
Model	M93/p Tiny	M83 Tiny	M73 Tiny	M53 Tiny
Processor	Intel® Core™ i7 / i5 / i3 (HSW 35 W) Intel Pentium® LV (HSW 35 W) Intel Celeron LV (HSW 35 W)			Intel Pentium J2900 Intel Celeron J1800
OS support	OS Support			
Memory	2 SO-DIMM, up to 16GB			1 SO-DIMM, up to 8GB
Graphics	Intel HD Graphics or Intel HD Graphics 4400/4600			Intel HD Graphics
Storage	HDD / SSHD / SSD		HDD / SSHD / SSD / DOM	
USB ports	5 USB 3.0 (2 front, 3 rear) 1 opt rear USB 2.0	4 USB 3.0 (2 front, 2 rear), 1 USB 2.0 (rear) 1 opt rear USB 2.0	2 USB 3.0 (front) 3 USB 2.0 (rear) 1 opt rear USB 2.0	1 USB 3.0 (front) 4 USB 2.0 (2 front, 2 rear) 1 opt rear USB 2.0
Optical	Optinal slim ODD box (DVD or DVD±RW)			
Security	TPM 1.2, Asset ID, Kensington® lock	TPM1.2, Asset ID, Kensington lock	Asset ID, Kensington lock	Asset ID, Kensington lock
Manageability	vPro, iAMT 9.0	No		
Multi monitor	Up to 3, VGA + DP + opt HDMI/2nd DP	Up to 3, VGA + DP + opt 2nd DP	Up to 2, VGA + DP	Up to 2, VGA + DP
HDD APS	Support		No	
USB KB Power On	Support			

ThinkCentre Tiny-in-One Power On Compatible list				
Model	M93/p Tiny	M83 Tiny	M73 Tiny	M53 Tiny
Turn on TIO and Tiny together via Alt + P on USB KB	All models	All models	All models	All models
Turn on TIO and Tiny together via TIO Power Button	TIO models	All models	TIO models	All models

See footnotes for more detailed information

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ThinkCentre M32 Thin Client

Lenovo ThinkCentre M32 Thin Client
with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M32 Thin Client

Lenovo ThinkCentre M32 Thin Client

Lenovo ThinkCentre M32 Thin Client

Lenovo ThinkCentre M32 Thin Client
(inside view)

Lenovo ThinkCentre M32 Thin Client

ThinkCentre M32 (10BV) - Thin Client (TopSeller) - 1-year depot

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Flash Memory	Optical	Graphics	DP to DVI dongle	Floor stand	Key-board/ Mouse	ENERGY STAR 6.0	Global	OS preload	Ann date *(mm/dd/yy)*
10BV0006US	Celeron 807	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	09/03/13
10BV0009US	Celeron 807	4GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	09/03/13
10BV0007US	Celeron 807	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	09/03/13
10BV0008US	Celeron 807	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	09/03/13
10BV000EUS	Celeron 847	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	12/10/13
10BV000FUS	Celeron 847	4GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	12/10/13
10BV000AUS	Celeron 847	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	12/10/13
10BV000BUS	Celeron 847	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	12/10/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year depot warranty*

Positioning	*Mainstream Thin Client with better security and manageability for the enterprise*
Processor	**Intel® Celeron® Processor 807** (**1 cores / 2 threads**, 1.5GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Celeron Processor 847** (**2 cores / 2 threads**, 1.1GHz, 2MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
Memory	4GB max, **PC3-12800 1600MHz DDR3***, one 204-pin SODIMM socket (notebook) * System automatically clocks down for processors with1333MHz DDR3 memory controller
Graphics	**Intel HD Graphics** in processor, uses main memory, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x2048 (DisplayPort)@60Hz; 2560x1600 (VGA)@60Hz
DP dongle	Optional DisplayPort to Single-link DVI-D dongle
Flash Memory	1GB (LeTOS models) or 8GB (WES 7 models) / DOM (Disk On Module) Card
Optical	None
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset
Onboard SATA	one SATA 3.0Gb/s connector for DOM Card
eSATA port	None
Chipset	**Mobile Intel NM70 Express Chipset**
Front ports	Four USB 2.0, microphone (3.5mm), headphone (3.5mm)
Rear ports	Two USB 2.0, ethernet (RJ-45), two PS/2 ports (keyboard and mouse), one parallel, four serial ports (Customizable Pin definition for serial port 2, 3, and 4), one VGA, one DisplayPort
PCIe Mini Card	None
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662-VD codec
Speaker	None
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111F, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
VESA mount	Supports VESA 100mm mount standard
Power supply	65 watts adapter, autosensing 100-240V, 85% PSU
Machine	• Business black color; USFF (2L) • Fan-less, Cable-less Design • (*Wthout stand*) 2.2" W X 6.7" D X 8.7" H • (*Wthout stand*) 55mm W X 170mm D X 220mm H • (*Wthout stand*) 3.3 lb (1.48 kg) in maximum configuration
Protocols	Citrix: ICA, HDX (compatible with XenDesktop and XenApp) Microsoft: RDP, RemoteFX (WES 7 models only), RDS VMWare: VMware Horizon View through RDP VMware Horizon View through PCoIP
Limited Warranty	**1-years**, **depot repair service** / service upgrades available

Preloaded operating system

Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)

- WES 7 only:

- Intel Management Engine Components
- RDP Client
- Citrix Client
- VMware Client
- Internet Explorer 9
- Java
- Flash
- .Net Framework
- Microsoft® Silverlight
- Echo Agent
- Ultra VNC
- Adobe Reader
- Intel Manageability Engine Firmware Recovery Agent

- LeTOS only:

- xFreeRDP
- Citrix ICA Client
- VMware View Client
- Java
- Mozilla Firefox
- NX NoMachine Client
- X11 Client
- VDI-In-A-Box Java Client
- AnyConnect VPN Client

Network-based Thin Client Management Tool - Lenovo Thin Client Manager (LTM)*
*A license is included with the purchase of M32 and the utility is downloadable from website

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Serial port and parallel port disablement

EPEAT™ Gold rating (WES models)
ENERGY STAR® 6.0 (WES models)
GREENGUARD® certified
RoHS-compliant
WEEE
REACH
VMWare Ready Certification
Citrix Ready/HDX Ready Certification
MS RemoteFX Certification (WES models)

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced September 3, 2013 or December 10, 2013

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ThinkCentre M32 (10BV) - Thin Client (TopSeller) - 1-year onsite

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Flash Memory	Optical	Graphics	DP to DVI dongle	Floor stand	Key-board/ Mouse	ENERGY STAR 6.0	Global	OS preload	Ann date *(mm/dd/yy)*
10BV0005US	Celeron 807	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	09/03/13
10BV0001US	Celeron 807	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	09/03/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Mainstream Thin Client with better security and manageability for the enterprise*
Processor	**Intel® Celeron® Processor 807** (**1 cores / 2 threads**, 1.5GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
Memory	4GB max, **PC3-12800 1600MHz DDR3***, one 204-pin SODIMM socket (notebook) * System automatically clocks down for processors with1333MHz DDR3 memory controller
Graphics	**Intel HD Graphics** in processor, uses main memory, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x2048 (DisplayPort)@60Hz; 2560x1600 (VGA)@60Hz
DP dongle	Optional DisplayPort to Single-link DVI-D dongle
Flash Memory	1GB (LeTOS models) or 8GB (WES 7 models) / DOM (Disk On Module) Card
Optical	None
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset
Onboard SATA	one SATA 3.0Gb/s connector for DOM Card
eSATA port	None
Chipset	**Mobile Intel NM70 Express Chipset**
Front ports	Four USB 2.0, microphone (3.5mm), headphone (3.5mm)
Rear ports	Two USB 2.0, ethernet (RJ-45), two PS/2 ports (keyboard and mouse), one parallel, four serial ports (Customizable Pin definition for serial port 2, 3, and 4), one VGA, one DisplayPort
PCIe Mini Card	None
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662-VD codec
Speaker	None
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111F, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
VESA mount	Supports VESA 100mm mount standard
Power supply	65 watts adapter, autosensing 100-240V, 85% PSU
Machine	• Business black color; USFF (2L) • Fan-less, Cable-less Design • (*Wthout stand*) 2.2" W X 6.7" D X 8.7" H • (*Wthout stand*) 55mm W X 170mm D X 220mm H • (*Wthout stand*) 3.3 lb (1.48 kg) in maximum configuration
Protocols	Citrix: ICA, HDX (compatible with XenDesktop and XenApp) Microsoft: RDP, RemoteFX (WES 7 models only), RDS VMWare: VMware Horizon View through RDP VMware Horizon View through PCoIP
Limited Warranty	**1-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)

- WES 7 only:

- Intel Management Engine Components
- RDP Client
- Citrix Client
- VMware Client
- Internet Explorer 9
- Java
- Flash
- .Net Framework
- Microsoft® Silverlight
- Echo Agent
- Ultra VNC
- Adobe Reader
- Intel Manageability Engine Firmware Recovery Agent

- LeTOS only:

- xFreeRDP
- Citrix ICA Client
- VMware View Client
- Java
- Mozilla Firefox
- NX NoMachine Client
- X11 Client
- VDI-In-A-Box Java Client
- AnyConnect VPN Client

Network-based Thin Client Management Tool - Lenovo Thin Client Manager (LTM)*
*A license is included with the purchase of M32 and the utility is downloadable from website

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Serial port and parallel port disablement

EPEAT™ Gold rating (WES models)
ENERGY STAR® 6.0 (WES models)
GREENGUARD® certified
RoHS-compliant
WEEE
REACH
VMWare Ready Certification
Citrix Ready/HDX Ready Certification
MS RemoteFX Certification (WES models)

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced September 3, 2013

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ThinkCentre M32 (10BV) - Thin Client (TopSeller) - 3-year onsite

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Flash Memory	Optical	Graphics	DP to DVI dongle	Floor stand	Key-board/ Mouse	ENERGY STAR 6.0	Global	OS preload	Ann date *(mm/dd/yy)*
10BV0004US	Celeron 807	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	09/03/13
10BV0000US	Celeron 807	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	09/03/13
10BV0002US	Celeron 807	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	09/03/13
10BV000GUS	Celeron 847	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	12/10/13
10BV000HUS	Celeron 847	4GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	12/10/13
10BV000CUS	Celeron 847	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	12/10/13
10BV000DUS	Celeron 847	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	12/10/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Mainstream Thin Client with better security and manageability for the enterprise*
Processor	**Intel® Celeron® Processor 807** (**1 cores / 2 threads**, 1.5GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Celeron Processor 847** (**2 cores / 2 threads**, 1.1GHz, 2MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
Memory	4GB max, **PC3-12800 1600MHz DDR3***, one 204-pin SODIMM socket (notebook) * System automatically clocks down for processors with1333MHz DDR3 memory controller
Graphics	**Intel HD Graphics** in processor, uses main memory, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x2048 (DisplayPort)@60Hz; 2560x1600 (VGA)@60Hz
DP dongle	Optional DisplayPort to Single-link DVI-D dongle
Flash Memory	1GB (LeTOS models) or 8GB (WES 7 models) / DOM (Disk On Module) Card
Optical	None
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset
Onboard SATA	one SATA 3.0Gb/s connector for DOM Card
eSATA port	None
Chipset	**Mobile Intel NM70 Express Chipset**
Front ports	Four USB 2.0, microphone (3.5mm), headphone (3.5mm)
Rear ports	Two USB 2.0, ethernet (RJ-45), two PS/2 ports (keyboard and mouse), one parallel, four serial ports (Customizable Pin definition for serial port 2, 3, and 4), one VGA, one DisplayPort
PCIe Mini Card	None
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662-VD codec
Speaker	None
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111F, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
VESA mount	Supports VESA 100mm mount standard
Power supply	65 watts adapter, autosensing 100-240V, 85% PSU
Machine	• Business black color; USFF (2L) • Fan-less, Cable-less Design • (*Wthout stand*) 2.2" W X 6.7" D X 8.7" H • (*Wthout stand*) 55mm W X 170mm D X 220mm H • (*Wthout stand*) 3.3 lb (1.48 kg) in maximum configuration
Protocols	Citrix: ICA, HDX (compatible with XenDesktop and XenApp) Microsoft: RDP, RemoteFX (WES 7 models only), RDS VMWare: VMware Horizon View through RDP VMware Horizon View through PCoIP
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)

- WES 7 only:

- Intel Management Engine Components
- RDP Client
- Citrix Client
- VMware Client
- Internet Explorer 9
- Java
- Flash
- .Net Framework
- Microsoft® Silverlight
- Echo Agent
- Ultra VNC
- Adobe Reader
- Intel Manageability Engine Firmware Recovery Agent

- LeTOS only:

- xFreeRDP
- Citrix ICA Client
- VMware View Client
- Java
- Mozilla Firefox
- NX NoMachine Client
- X11 Client
- VDI-In-A-Box Java Client
- AnyConnect VPN Client

Network-based Thin Client Management Tool - Lenovo Thin Client Manager (LTM)*
*A license is included with the purchase of M32 and the utility is downloadable from website

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Serial port and parallel port disablement

EPEAT™ Gold rating (WES models)
ENERGY STAR® 6.0 (WES models)
GREENGUARD® certified
RoHS-compliant
WEEE
REACH
VMWare Ready Certification
Citrix Ready/HDX Ready Certification
MS RemoteFX Certification (WES models)

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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US model(s) announced September 3, 2013 or December 10, 2013

ThinkCentre M32 (10BM) - Thin Client (1-year depot)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Flash Memory	Optical	Graphics	DP to DVI dongle	Floor stand	Key-board/ Mouse	ENERGY STAR 6.0	Global	OS preload	Ann date *(mm/dd/yy)*
10BM0001US	Celeron 807	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	09/03/13
10BM0004US	Celeron 807	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	09/03/13
10BM000MUS	Celeron 807	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	09/03/13
10BM000TUS	Celeron 807	4GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	12/10/13
10BM0013US	Celeron 847	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	12/10/13
10BM0015US	Celeron 847	4GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	12/10/13
10BM000YUS	Celeron 847	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	12/10/13
10BM0010US	Celeron 847	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	12/10/13

- *1-year depot warranty*

Positioning	*Mainstream Thin Client with better security and manageability for the enterprise*
Processor	**Intel® Celeron® Processor 807** (**1 cores / 2 threads**, 1.5GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Celeron Processor 847** (**2 cores / 2 threads**, 1.1GHz, 2MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
Memory	4GB max, **PC3-12800 1600MHz DDR3***, one 204-pin SODIMM socket (notebook) * System automatically clocks down for processors with1333MHz DDR3 memory controller
Graphics	**Intel HD Graphics** in processor, uses main memory, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x2048 (DisplayPort)@60Hz; 2560x1600 (VGA)@60Hz
DP dongle	Optional DisplayPort to Single-link DVI-D dongle
Flash Memory	1GB (LeTOS models) or 8GB (WES 7 models) / DOM (Disk On Module) Card
Optical	None
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset
Onboard SATA	one SATA 3.0Gb/s connector for DOM Card
eSATA port	None
Chipset	**Mobile Intel NM70 Express Chipset**
Front ports	Four USB 2.0, microphone (3.5mm), headphone (3.5mm)
Rear ports	Two USB 2.0, ethernet (RJ-45), two PS/2 ports (keyboard and mouse), one parallel, four serial ports (Customizable Pin definition for serial port 2, 3, and 4), one VGA, one DisplayPort
PCIe Mini Card	None
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662-VD codec
Speaker	None
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111F, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
VESA mount	Supports VESA 100mm mount standard
Power supply	65 watts adapter, autosensing 100-240V, 85% PSU
Machine	• Business black color; USFF (2L) • Fan-less, Cable-less Design • (*Wthout stand*) 2.2" W X 6.7" D X 8.7" H • (*Wthout stand*) 55mm W X 170mm D X 220mm H • (*Wthout stand*) 3.3 lb (1.48 kg) in maximum configuration
Protocols	Citrix: ICA, HDX (compatible with XenDesktop and XenApp) Microsoft: RDP, RemoteFX (WES 7 models only), RDS VMWare: VMware Horizon View through RDP VMware Horizon View through PCoIP
Limited Warranty	**1-years**, **depot repair service** / service upgrades available

Preloaded operating system

Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)

- WES 7 only:

- Intel Management Engine Components
- RDP Client
- Citrix Client
- VMware Client
- Internet Explorer 9
- Java
- Flash
- .Net Framework
- Microsoft® Silverlight
- Echo Agent
- Ultra VNC
- Adobe Reader
- Intel Manageability Engine Firmware Recovery Agent

- LeTOS only:

- xFreeRDP
- Citrix ICA Client
- VMware View Client
- Java
- Mozilla Firefox
- NX NoMachine Client
- X11 Client
- VDI-In-A-Box Java Client
- AnyConnect VPN Client

Network-based Thin Client Management Tool - Lenovo Thin Client Manager (LTM)*
*A license is included with the purchase of M32 and the utility is downloadable from website

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
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- Serial port and parallel port disablement

EPEAT™ Gold rating (WES models)
ENERGY STAR® 6.0 (WES models)
GREENGUARD® certified
RoHS-compliant
WEEE
REACH
VMWare Ready Certification
Citrix Ready/HDX Ready Certification
MS RemoteFX Certification (WES models)

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced September 3, 2013 or December 10, 2013

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ThinkCentre M32 (10BM) - Thin Client (1-year onsite)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Flash Memory	Optical	Graphics	DP to DVI dongle	Floor stand	Key-board/ Mouse	ENERGY STAR 6.0	Global	OS preload	Ann date *(mm/dd/yy)*
10BM0000US	Celeron 807	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	09/03/13
10BM0002US	Celeron 807	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	09/03/13

- *1-year limited warranty*

Positioning	*Mainstream Thin Client with better security and manageability for the enterprise*
Processor	**Intel® Celeron® Processor 807** (**1 cores / 2 threads**, 1.5GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
Memory	4GB max, **PC3-12800 1600MHz DDR3***, one 204-pin SODIMM socket (notebook) * System automatically clocks down for processors with1333MHz DDR3 memory controller
Graphics	**Intel HD Graphics** in processor, uses main memory, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x2048 (DisplayPort)@60Hz; 2560x1600 (VGA)@60Hz
DP dongle	Optional DisplayPort to Single-link DVI-D dongle
Flash Memory	1GB (LeTOS models) or 8GB (WES 7 models) / DOM (Disk On Module) Card
Optical	None
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset
Onboard SATA	one SATA 3.0Gb/s connector for DOM Card
eSATA port	None
Chipset	**Mobile Intel NM70 Express Chipset**
Front ports	Four USB 2.0, microphone (3.5mm), headphone (3.5mm)
Rear ports	Two USB 2.0, ethernet (RJ-45), two PS/2 ports (keyboard and mouse), one parallel, four serial ports (Customizable Pin definition for serial port 2, 3, and 4), one VGA, one DisplayPort
PCIe Mini Card	None
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662-VD codec
Speaker	None
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111F, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
VESA mount	Supports VESA 100mm mount standard
Power supply	65 watts adapter, autosensing 100-240V, 85% PSU
Machine	• Business black color; USFF (2L) • Fan-less, Cable-less Design • (*Wthout stand*) 2.2" W X 6.7" D X 8.7" H • (*Wthout stand*) 55mm W X 170mm D X 220mm H • (*Wthout stand*) 3.3 lb (1.48 kg) in maximum configuration
Protocols	Citrix: ICA, HDX (compatible with XenDesktop and XenApp) Microsoft: RDP, RemoteFX (WES 7 models only), RDS VMWare: VMware Horizon View through RDP VMware Horizon View through PCoIP
Limited Warranty	**1-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)

- WES 7 only:

- Intel Management Engine Components
- RDP Client
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- Java
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- .Net Framework
- Microsoft® Silverlight
- Echo Agent
- Ultra VNC
- Adobe Reader
- Intel Manageability Engine Firmware Recovery Agent

- LeTOS only:

- xFreeRDP
- Citrix ICA Client
- VMware View Client
- Java
- Mozilla Firefox
- NX NoMachine Client
- X11 Client
- VDI-In-A-Box Java Client
- AnyConnect VPN Client

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- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
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- Serial port and parallel port disablement

EPEAT™ Gold rating (WES models)
ENERGY STAR® 6.0 (WES models)
GREENGUARD® certified
RoHS-compliant
WEEE
REACH
VMWare Ready Certification
Citrix Ready/HDX Ready Certification
MS RemoteFX Certification (WES models)

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced September 3, 2013

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ThinkCentre M32 (10BM) - Thin Client (3-year onsite)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Flash Memory	Optical	Graphics	DP to DVI dongle	Floor stand	Key-board/ Mouse	ENERGY STAR 6 0	Global	OS preload	Ann date *(mm/dd/yy)*
10BM0006US	Celeron 807	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	09/03/13
10BM0005US	Celeron 807	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	09/03/13
10BM0003US	Celeron 807	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	09/03/13
10BM0008US	Celeron 807	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	09/03/13
10BM000RUS	Celeron 847	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	12/10/13
10BM0014US	Celeron 847	4GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	12/10/13
10BM0011US	Celeron 847	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	12/10/13
10BM0012US	Celeron 847	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	12/10/13

●*3-year limited warranty*

Positioning	*Mainstream Thin Client with better security and manageability for the enterprise*
Processor	**Intel® Celeron® Processor 807** (**1 cores / 2 threads**, 1.5GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Celeron Processor 847** (**2 cores / 2 threads**, 1.1GHz, 2MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
Memory	4GB max, **PC3-12800 1600MHz DDR3***, one 204-pin SODIMM socket (notebook) * System automatically clocks down for processors with1333MHz DDR3 memory controller
Graphics	**Intel HD Graphics** in processor, uses main memory, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x2048 (DisplayPort)@60Hz; 2560x1600 (VGA)@60Hz
DP dongle	Optional DisplayPort to Single-link DVI-D dongle
Flash Memory	1GB (LeTOS models) or 8GB (WES 7 models) / DOM (Disk On Module) Card
Optical	None
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset
Onboard SATA	one SATA 3.0Gb/s connector for DOM Card
eSATA port	None
Chipset	**Mobile Intel NM70 Express Chipset**
Front ports	Four USB 2.0, microphone (3.5mm), headphone (3.5mm)
Rear ports	Two USB 2.0, ethernet (RJ-45), two PS/2 ports (keyboard and mouse), one parallel, four serial ports (Customizable Pin definition for serial port 2, 3, and 4), one VGA, one DisplayPort
PCIe Mini Card	None
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662-VD codec
Speaker	None
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111F, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
VESA mount	Supports VESA 100mm mount standard
Power supply	65 watts adapter, autosensing 100-240V, 85% PSU
Machine	● Business black color; USFF (2L) ● Fan-less, Cable-less Design ● (*Wthout stand*) 2.2" W X 6.7" D X 8.7" H ● (*Wthout stand*) 55mm W X 170mm D X 220mm H ● (*Wthout stand*) 3.3 lb (1.48 kg) in maximum configuration
Protocols	Citrix: ICA, HDX (compatible with XenDesktop and XenApp) Microsoft: RDP, RemoteFX (WES 7 models only), RDS VMWare: VMware Horizon View through RDP VMware Horizon View through PCoIP
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)

- WES 7 only:

- Intel Management Engine Components
- RDP Client
- Citrix Client
- VMware Client
- Internet Explorer 9
- Java
- Flash
- .Net Framework
- Microsoft® Silverlight
- Echo Agent
- Ultra VNC
- Adobe Reader
- Intel Manageability Engine Firmware Recovery Agent

- LeTOS only:

- xFreeRDP
- Citrix ICA Client
- VMware View Client
- Java
- Mozilla Firefox
- NX NoMachine Client
- X11 Client
- VDI-In-A-Box Java Client
- AnyConnect VPN Client

Network-based Thin Client Management Tool - Lenovo Thin Client Manager (LTM)*
*A license is included with the purchase of M32 and the utility is downloadable from website

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Serial port and parallel port disablement

EPEAT™ Gold rating (WES models)
ENERGY STAR® 6.0 (WES models)
GREENGUARD® certified
RoHS-compliant
WEEE
REACH
VMWare Ready Certification
Citrix Ready/HDX Ready Certification
MS RemoteFX Certification (WES models)

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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US model(s) announced September 3, 2013 or December 10, 2013
(CLVL1-5) December 2013

ThinkCentre M32 (10BM) - Thin Client (GMP)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Flash Memory	Optical	Graphics	DP to DVI dongle	Floor stand	Key-board/ Mouse	ENERGY STAR 6.0	Global (G) GMP (P)	OS preload	Ann date *(mm/dd/yy)*
10BM0009US	Celeron 807	2GBx1	1G DOM Card	None	Intel HD Graphics	DP to DVI	Floor stand	USB	None	G P	LeTOS	09/03/13
10BM000AUS	Celeron 807	2GBx1	8G DOM Card	None	Intel HD Graphics	DP to DVI	Floor stand	USB	ES6.0	G P	WES 7	09/03/13
10BM000BUS	Celeron 807	4GBx1	8G DOM Card	None	Intel HD Graphics	DP to DVI	Floor stand	USB	ES6.0	G P	WES 7	09/03/13
10BM0017US	Celeron 847	2GBx1	1G DOM Card	None	Intel HD Graphics	DP to DVI	Floor stand	USB	None	G P	LeTOS	12/24/13
10BM0018US	Celeron 847	2GBx1	8G DOM Card	None	Intel HD Graphics	DP to DVI	Floor stand	USB	ES6.0	G P	WES 7	12/24/13
10BM0019US	Celeron 847	4GBx1	8G DOM Card	None	Intel HD Graphics	DP to DVI	Floor stand	USB	ES6.0	G P	WES 7	12/24/13

- *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*
- *3-year limited warranty*

Positioning	*Mainstream Thin Client with better security and manageability for the enterprise*
Processor	**Intel® Celeron® Processor 807** (**1 cores / 2 threads**, 1.5GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Celeron Processor 847** (**2 cores / 2 threads**, 1.1GHz, 2MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
Memory	4GB max, **PC3-12800 1600MHz DDR3***, one 204-pin SODIMM socket (notebook) * System automatically clocks down for processors with1333MHz DDR3 memory controller
Graphics	**Intel HD Graphics** in processor, uses main memory, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x2048 (DisplayPort)@60Hz; 2560x1600 (VGA)@60Hz
DP dongle	Optional DisplayPort to Single-link DVI-D dongle
Flash Memory	1GB (LeTOS models) or 8GB (WES 7 models) / DOM (Disk On Module) Card
Optical	None
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset
Onboard SATA	one SATA 3.0Gb/s connector for DOM Card
eSATA port	None
Chipset	**Mobile Intel NM70 Express Chipset**
Front ports	Four USB 2.0, microphone (3.5mm), headphone (3.5mm)
Rear ports	Two USB 2.0, ethernet (RJ-45), two PS/2 ports (keyboard and mouse), one parallel, four serial ports (Customizable Pin definition for serial port 2, 3, and 4), one VGA, one DisplayPort
PCIe Mini Card	None
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662-VD codec
Speaker	None
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111F, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
VESA mount	Supports VESA 100mm mount standard
Power supply	65 watts adapter, autosensing 100-240V, 85% PSU
Machine	• Business black color; USFF (2L) • Fan-less, Cable-less Design • (*Wthout stand*) 2.2" W X 6.7" D X 8.7" H • (*Wthout stand*) 55mm W X 170mm D X 220mm H • (*Wthout stand*) 3.3 lb (1.48 kg) in maximum configuration
Protocols	Citrix: ICA, HDX (compatible with XenDesktop and XenApp) Microsoft: RDP, RemoteFX (WES 7 models only), RDS VMWare: VMware Horizon View through RDP VMware Horizon View through PCoIP
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)

- WES 7 only:

- Intel Management Engine Components
- RDP Client
- Citrix Client
- VMware Client
- Internet Explorer 9
- Java
- Flash
- .Net Framework
- Microsoft® Silverlight
- Echo Agent
- Ultra VNC
- Adobe Reader
- Intel Manageability Engine Firmware Recovery Agent

- LeTOS only:

- xFreeRDP
- Citrix ICA Client
- VMware View Client
- Java
- Mozilla Firefox
- NX NoMachine Client
- X11 Client
- VDI-In-A-Box Java Client
- AnyConnect VPN Client

Network-based Thin Client Management Tool - Lenovo Thin Client Manager (LTM)*
*A license is included with the purchase of M32 and the utility is downloadable from website

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Serial port and parallel port disablement

EPEAT™ Gold rating (WES models)
ENERGY STAR® 6.0 (WES models)
GREENGUARD® certified
RoHS-compliant
WEEE
REACH
VMWare Ready Certification
Citrix Ready/HDX Ready Certification
MS RemoteFX Certification (WES models)

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced September 3, 2013 or December 24, 2013

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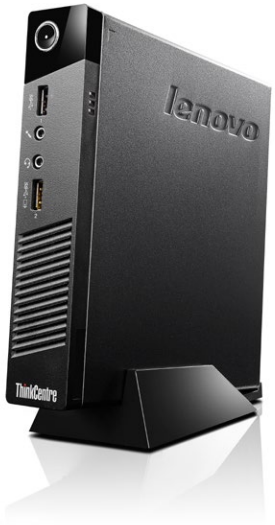
ThinkCentre M53 Tiny with optional floor stand, wireless Keyboard/mouse, and monitor



ThinkCentre M53 Tiny with optional floor stand

ThinkCentre M53 Tiny with optional VESA mount kit

ThinkCentre M53 Tiny with optional optical box

ThinkCentre M53 Tiny with optional I/O box

ThinkCentre M53 Tiny

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ThinkCentre M53 Tiny Platform Specifications

Processor

Intel® Celeron® Processor J1000 Series for Desktop or
Intel Pentium® Processor J2000 Series for Desktop

Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics
Celeron J1800	2 / 2	2.58 / 2.41 GHz	1MB	DDR3L-1333	Intel HD
Pentium J2900	4 / 4	2.58 / 2.41 GHz	2MB	DDR3L-1333	Intel HD

Chipset

Intel one-chip platform, integrates processor core, graphics, memory controller, and Platform Controller Hub (PCH) in one chip

Graphics

Intel HD Graphics in processor, uses main memory, DirectX® 11,
one VGA, one DisplayPort™, supports dual independent display;
Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz

Monitor cable

Optional DisplayPort to DVI-D or DisplayPort to HDMI monitor cable

Memory

8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
* System automatically clocks down for processors with1333MHz DDR3 memory controller

Storage

Some: 8GB or 16GB / DOM (Disk On Module) Card
Some: SATA 3.0Gb/s, 2.5" Wide, 5400 or 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 3.0Gb/s, 2.5" wide

Optical

Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide
Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB
Some: external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB

Onboard SATA

SATA 3.0Gb/s controller, one connectors on planar

Media reader

None

Front ports

One USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort, one optional port (USB 2.0 or serial on selected models)

I/O box

Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

Audio support

High Definition (HD) Audio, Realtek ALC283 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8192EE, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®

Modem

None

Manageability

None

Security chip

None

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Tiny (1L), business black color; metal case

M53 Tiny only:
7.0" W X 7.2" D X 1.4" H
179mm W X 182mm D X 34.5mm H
2.9 lb (1.3 kg), weight may vary by configuration
With VESA mount & optical box:
7.2" W X 7.2" D X 2.55" H
184mm W X 182mm D X 65mm H
4.6 lb (2.1 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty[3]

Some: 1-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, IWS (International Warranty Service[9]) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 8.1 with Bing 64-bit

Ready to install applications (for Win7)
- Rescue and Recovery™
- Password Manager

Web install applications (for Win8.1)
- Password Manager

Preloaded applications (only some listed)
- For both Windows 7 and Windows 8.1
- ThinkVantage System Update
- Desktop Power Manager
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Lenovo Reach
- Lenovo SHAREit
- Norton™ Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Nitro Pro

- Only for Windows 7:
- ThinkVantage® Product Recovery
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- View Management Utility
- Lenovo Message Center Plus

- Only for Windows 8.1:
- Cyberlink PowerDVD (DVD±RW, DVD)
- AccuWeather
- Norton™ Studio
- Pokki
- Hightail

Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)

- WES 7 only:
- Intel Management Engine Components
- RDP Client (RDP 8 support)
- Citrix Client
- VMware Client
- Internet Explorer 9
- Java
- Flash
- .Net Framework
- Microsoft® Silverlight
- Echo Agent
- Lenovo Thin Client Manager (LTM)
- Adobe Reader
- Intel Manageability Engine Firmware Recovery Agent

- LeTOS only:
- xFreeRDP
- Citrix ICA Client
- VMware View Client
- Java
- Mozilla Firefox
- NX NoMachine Client
- X11 Client
- AnyConnect VPN Client

Environment

ENERGY STAR® 6.0 (for Windows models only);
GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

For compatible accessories, please go to TC-AQP sheet

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ThinkCentre M53 Tiny (10DC) - TopSeller

Product Specifications Reference (PSREF)

Model	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	Monitor Cable	Chassis Intrusion Switch	Floor Stand	VESA Mount	Key-board/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10DC0011US	Pentium J2900	4GBx1	Intel HD	500GB 7200	None	7260 b/g/n	None	None	None	Stand	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	3-onsite	No	08/14
10DC0012US	Pentium J2900	8GBx1	Intel HD	256GB SSD OPAL	None	7260 b/g/n	None	None	None	Stand	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	3-onsite	No	08/14
10DC001GUS	Pentium J2900	4GBx1	Intel HD	500GB 7200	None	RTL8723BE	None	None	None	None	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	1-onsite	No	12/14
10DC001JUS	Pentium J2900	4GBx1	Intel HD	500GB 7200	None	7260 b/g/n	None	None	None	None	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	1-onsite	No	02/15
10DC001HUS	Pentium J2900	4GBx1	Intel HD	180GB SSD OPAL	None	7260 b/g/n	None	None	None	None	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	1-onsite	No	02/15

- *For detailed platform specifications, please see ThinkCentre M53 Tiny Platform Specifications sheet*

Processor

Intel® Celeron® Processor J1000 Series* for Desktop or
Intel Pentium® Processor J2000 Series* for Desktop

Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics
Celeron J1800	2 / 2	2.58 / 2.41 GHz	1MB	DDR3L-1333	Intel HD
Pentium J2900	4 / 4	2.58 / 2.41 GHz	2MB	DDR3L-1333	Intel HD

Chipset

Intel one-chip platform, integrates processor core, graphics, memory controller, and Platform Controller Hub (PCH) in one chip

Graphics

Intel HD Graphics in processor, uses main memory, DirectX® 11,
one VGA, one DisplayPort™, supports dual independent display;
Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz

Monitor cable

Optional DisplayPort to DVI-D or DisplayPort to HDMI monitor cable

Memory

8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
* System automatically clocks down for processors with1333MHz DDR3 memory controller

Storage

Some: 8GB or 16GB / DOM (Disk On Module) Card
Some: SATA 3.0Gb/s, 2.5" Wide, 5400 or 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 3.0Gb/s, 2.5" wide

Optical

Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide
Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB
Some: external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB

Onboard SATA

SATA 3.0Gb/s controller, one connectors on planar

Media reader

None

Front ports

One USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort, one optional port (USB 2.0 or serial on selected models)

I/O box

Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

Audio support

High Definition (HD) Audio, Realtek ALC283 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®

Modem

None

Manageability

None

Security chip

None

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

USB: Preferred Pro USB Keyboard (USB connector), Lenovo logo
USB(Slim): Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo
2.4G: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

USB: Enhanced Optical USB Mouse, black, Lenovo logo
2.4G: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Tiny (1L), business black color; metal case

M53 Tiny only:
7.0" W X 7.2" D X 1.4" H
179mm W X 182mm D X 34.5mm H
2.9 lb (1.3 kg), weight may vary by configuration
With VESA mount & optical box:
7.2" W X 7.2" D X 2.55" H
184mm W X 182mm D X 65mm H
4.6 lb (2.1 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty[3]

Some: 1-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, IWS (International Warranty Service[9]) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 8.1 with Bing 64-bit
Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Environment

ENERGY STAR® 6.0 (for Windows models only);
GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M53 Tiny (10DE) - TopSeller

Product Specifications Reference (PSREF)

Model	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	Monitor Cable	Chassis Intrusion Switch	Floor Stand	VESA Mount	Key-board/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10DE0004US	Celeron J1800	4GBx1	Intel HD	500GB 7200	None	7260 b/g/n	None	None	None	Stand	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	3-onsite	No	08/14
10DE0005US	Celeron J1800	8GBx1	Intel HD	256GB SSD OPAL	None	7260 b/g/n	None	None	None	Stand	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	3-onsite	No	08/14
10DE001HUS	Celeron J1800	4GBx1	Intel HD	500GB 7200	None	RTL8723BE	None	None	None	None	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	1-onsite	No	12/14
10DE001LUS	Celeron J1800	4GBx1	Intel HD	500GB 7200	None	7260 b/g/n	None	DP to DVI	None	None	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	1-onsite	No	02/15
10DE001KUS	Celeron J1800	4GBx1	Intel HD	128GB SSD	None	7260 b/g/n	None	DP to DVI	None	None	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	1-onsite	No	02/15

- *For detailed platform specifications, please see ThinkCentre M53 Tiny Platform Specifications sheet*

Processor

Intel® Celeron® Processor J1000 Series* for Desktop or
Intel Pentium® Processor J2000 Series* for Desktop

Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics
Celeron J1800	2 / 2	2.58 / 2.41 GHz	1MB	DDR3L-1333	Intel HD
Pentium J2900	4 / 4	2.58 / 2.41 GHz	2MB	DDR3L-1333	Intel HD

Chipset

Intel one-chip platform, integrates processor core, graphics, memory controller, and Platform Controller Hub (PCH) in one chip

Graphics

Intel HD Graphics in processor, uses main memory, DirectX® 11,
one VGA, one DisplayPort™, supports dual independent display;
Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz

Monitor cable

Optional DisplayPort to DVI-D or DisplayPort to HDMI monitor cable

Memory

8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
* System automatically clocks down for processors with1333MHz DDR3 memory controller

Storage

Some: 8GB or 16GB / DOM (Disk On Module) Card
Some: SATA 3.0Gb/s, 2.5" Wide, 5400 or 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 3.0Gb/s, 2.5" wide

Optical

Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide
Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB
Some: external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB

Onboard SATA

SATA 3.0Gb/s controller, one connectors on planar

Media reader

None

Front ports

One USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort, one optional port (USB 2.0 or serial on selected models)

I/O box

Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

Audio support

High Definition (HD) Audio, Realtek ALC283 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®

Modem

None

Manageability

None

Security chip

None

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

USB: Preferred Pro USB Keyboard (USB connector), Lenovo logo
USB(Slim): Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo
2.4G: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

USB: Enhanced Optical USB Mouse, black, Lenovo logo
2.4G: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Tiny (1L), business black color; metal case

M53 Tiny only:
7.0" W X 7.2" D X 1.4" H
179mm W X 182mm D X 34.5mm H
2.9 lb (1.3 kg), weight may vary by configuration
With VESA mount & optical box:
7.2" W X 7.2" D X 2.55" H
184mm W X 182mm D X 65mm H
4.6 lb (2.1 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty[3]

Some: 1-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, IWS (International Warranty Service[9]) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 8.1 with Bing 64-bit
Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Environment

ENERGY STAR® 6.0 (for Windows models only);
GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M53 Tiny (10ED) - Thin Client (TopSeller)

Product Specifications Reference (PSREF)

Model	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	Monitor Cable	Chassis Intrusion Switch	Floor Stand	VESA Mount	Keyboard/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10ED0000US	Celeron J1800	2GBx1	Intel HD	16GB DOM Card	None	RTL8723BE	None	DP to DVI	None	Stand	None	USB	Speaker	65W	None	WES7	1-onsite	No	12/14
10ED0001US	Celeron J1800	4GBx1	Intel HD	16GB DOM Card	None	RTL8723BE	None	DP to DVI	None	Stand	None	USB	Speaker	65W	None	WES7	1-onsite	No	12/14
10ED0002US	Celeron J1800	2GBx1	Intel HD	8GB DOM Card	None	RTL8723BE	None	None	None	Stand	None	USB	Speaker	65W	None	LeTOS	1-Depot	No	12/14
10ED0003US	Celeron J1800	4GBx1	Intel HD	8GB DOM Card	None	RTL8723BE	None	None	None	Stand	None	USB	Speaker	65W	None	LeTOS	1-Depot	No	12/14
10ED0007US	Celeron J1800	2GBx1	Intel HD	8GB DOM Card	None	RTL8723BE	None	None	None	None	None	USB	Speaker	65W	None	LeTOS	1-onsite	No	01/15
10ED0008US	Celeron J1800	2GBx1	Intel HD	16GB DOM Card	None	RTL8723BE	None	None	None	None	None	USB	Speaker	65W	None	WES7	1-onsite	No	01/15
10ED0009US	Celeron J1800	4GBx1	Intel HD	8GB DOM Card	None	RTL8723BE	None	None	None	None	None	USB	Speaker	65W	None	LeTOS	1-onsite	No	01/15

- *For detailed platform specifications, please see ThinkCentre M53 Tiny Platform Specifications sheet*

Processor

Intel® Celeron® Processor J1000 Series* for Desktop or
Intel Pentium® Processor J2000 Series* for Desktop

Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics
Celeron J1800	2 / 2	2.58 / 2.41 GHz	1MB	DDR3L-1333	Intel HD
Pentium J2900	4 / 4	2.58 / 2.41 GHz	2MB	DDR3L-1333	Intel HD

Chipset

Intel one-chip platform, integrates processor core, graphics, memory controller, and Platform Controller Hub (PCH) in one chip

Graphics

Intel HD Graphics in processor, uses main memory, DirectX® 11,
one VGA, one DisplayPort™, supports dual independent display;
Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz

Monitor cable

Optional DisplayPort to DVI-D or DisplayPort to HDMI monitor cable

Memory

8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
* System automatically clocks down for processors with1333MHz DDR3 memory controller

Storage

Some: 8GB or 16GB / DOM (Disk On Module) Card
Some: SATA 3.0Gb/s, 2.5" Wide, 5400 or 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 3.0Gb/s, 2.5" wide

Optical

Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide
Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB
Some: external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB

Onboard SATA

SATA 3.0Gb/s controller, one connectors on planar

Media reader

None

Front ports

One USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort, one optional port (USB 2.0 or serial on selected models)

I/O box

Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

Audio support

High Definition (HD) Audio, Realtek ALC283 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®

Modem

None

Manageability

None

Security chip

None

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

USB: Preferred Pro USB Keyboard (USB connector), Lenovo logo
USB(Slim): Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo
2.4G: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

USB: Enhanced Optical USB Mouse, black, Lenovo logo
2.4G: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Tiny (1L), business black color; metal case

M53 Tiny only:
7.0" W X 7.2" D X 1.4" H
179mm W X 182mm D X 34.5mm H
2.9 lb (1.3 kg), weight may vary by configuration
With VESA mount & optical box:
7.2" W X 7.2" D X 2.55" H
184mm W X 182mm D X 65mm H
4.6 lb (2.1 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty[3]

Some: 1-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, IWS (International Warranty Service[9]) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 8.1 with Bing 64-bit
Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Environment

ENERGY STAR® 6.0 (for Windows models only);
GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M53 Tiny (10DB)

Product Specifications Reference (PSREF)

Model	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	Monitor Cable	Chassis Intrusion Switch	Floor Stand	VESA Mount	Key-board/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10DB000WUS	Pentium J2900	4GBx1	Intel HD	500GB 7200	None	7260 b/g/n	None	None	None	None	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	3-onsite	No	08/14
10DB000XUS	Pentium J2900	8GBx1	Intel HD	256GB SSD	None	7260 b/g/n	None	None	None	None	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	3-onsite	No	08/14

- *For detailed platform specifications, please see ThinkCentre M53 Tiny Platform Specifications sheet*

Processor

Intel® Celeron® Processor J1000 Series* for Desktop or
Intel Pentium® Processor J2000 Series* for Desktop

Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics
Celeron J1800	2 / 2	2.58 / 2.41 GHz	1MB	DDR3L-1333	Intel HD
Pentium J2900	4 / 4	2.58 / 2.41 GHz	2MB	DDR3L-1333	Intel HD

Chipset

Intel one-chip platform, integrates processor core, graphics, memory controller, and Platform Controller Hub (PCH) in one chip

Graphics

Intel HD Graphics in processor, uses main memory, DirectX® 11,
one VGA, one DisplayPort™, supports dual independent display;
Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz

Monitor cable

Optional DisplayPort to DVI-D or DisplayPort to HDMI monitor cable

Memory

8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
* System automatically clocks down for processors with1333MHz DDR3 memory controller

Storage

Some: 8GB or 16GB / DOM (Disk On Module) Card
Some: SATA 3.0Gb/s, 2.5" Wide, 5400 or 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 3.0Gb/s, 2.5" wide

Optical

Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide
Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB
Some: external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB

Onboard SATA

SATA 3.0Gb/s controller, one connectors on planar

Media reader

None

Front ports

One USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort, one optional port (USB 2.0 or serial on selected models)

I/O box

Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

Audio support

High Definition (HD) Audio, Realtek ALC283 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®

Modem

None

Manageability

None

Security chip

None

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

USB: Preferred Pro USB Keyboard (USB connector), Lenovo logo
USB(Slim): Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo
2.4G: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

USB: Enhanced Optical USB Mouse, black, Lenovo logo
2.4G: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Tiny (1L), business black color; metal case

M53 Tiny only:
7.0" W X 7.2" D X 1.4" H
179mm W X 182mm D X 34.5mm H
2.9 lb (1.3 kg), weight may vary by configuration
With VESA mount & optical box:
7.2" W X 7.2" D X 2.55" H
184mm W X 182mm D X 65mm H
4.6 lb (2.1 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty[3]

Some: 1-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, IWS (International Warranty Service[9]) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 8.1 with Bing 64-bit
Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Environment

ENERGY STAR® 6.0 (for Windows models only);
GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M53 Tiny (10DD)

Product Specifications Reference (PSREF)

Model	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	Monitor Cable	Chassis Intrusion Switch	Floor Stand	VESA Mount	Key-board/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10DD000QUS	Celeron J1800	8GBx1	Intel HD	256GB SSD	None	7260 b/g/n	None	None	None	None	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	3-onsite	No	08/14
10DD000PUS	Celeron J1800	4GBx1	Intel HD	500GB 7200	None	7260 b/g/n	None	None	None	None	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	3-onsite	No	08/14

- *For detailed platform specifications, please see ThinkCentre M53 Tiny Platform Specifications sheet*

Processor

Intel® Celeron® Processor J1000 Series* for Desktop or
Intel Pentium® Processor J2000 Series* for Desktop

Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics
Celeron J1800	2 / 2	2.58 / 2.41 GHz	1MB	DDR3L-1333	Intel HD
Pentium J2900	4 / 4	2.58 / 2.41 GHz	2MB	DDR3L-1333	Intel HD

Chipset

Intel one-chip platform, integrates processor core, graphics, memory controller, and Platform Controller Hub (PCH) in one chip

Graphics

Intel HD Graphics in processor, uses main memory, DirectX® 11,
one VGA, one DisplayPort™, supports dual independent display;
Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz

Monitor cable

Optional DisplayPort to DVI-D or DisplayPort to HDMI monitor cable

Memory

8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
* System automatically clocks down for processors with1333MHz DDR3 memory controller

Storage

Some: 8GB or 16GB / DOM (Disk On Module) Card
Some: SATA 3.0Gb/s, 2.5" Wide, 5400 or 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 3.0Gb/s, 2.5" wide

Optical

Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide
Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB
Some: external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB

Onboard SATA

SATA 3.0Gb/s controller, one connectors on planar

Media reader

None

Front ports

One USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort, one optional port (USB 2.0 or serial on selected models)

I/O box

Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

Audio support

High Definition (HD) Audio, Realtek ALC283 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®

Modem

None

Manageability

None

Security chip

None

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

USB: Preferred Pro USB Keyboard (USB connector), Lenovo logo
USB(Slim): Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo
2.4G: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

USB: Enhanced Optical USB Mouse, black, Lenovo logo
2.4G: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Tiny (1L), business black color; metal case

M53 Tiny only:
7.0" W X 7.2" D X 1.4" H
179mm W X 182mm D X 34.5mm H
2.9 lb (1.3 kg), weight may vary by configuration
With VESA mount & optical box:
7.2" W X 7.2" D X 2.55" H
184mm W X 182mm D X 65mm H
4.6 lb (2.1 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty[3]

Some: 1-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, IWS (International Warranty Service[9]) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 8.1 with Bing 64-bit
Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Environment

ENERGY STAR® 6.0 (for Windows models only);
GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M53 Tiny (10DX) - TIO models

Model	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	Monitor Cable	Chassis Intrusion Switch	Floor Stand	VESA Mount	Key-board/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10DX000JUS	Celeron J1800	4GBx1	Intel HD	500GB 5400	None	RTL8723BE	None	None	Switch	None	None	USB	Speaker	None	None	Win7 P64 DG Win8.1	3-onsite, IWS	Global	10/14
10DX000KUS	Celeron J1800	4GBx1	Intel HD	500GB 7200	None	RTL8723BE	None	None	Switch	None	None	USB	Speaker	None	None	Win7 P64 DG Win8.1	3-onsite, IWS	Global	10/14

- *For detailed platform specifications, please see ThinkCentre M53 Tiny Platform Specifications sheet*

Processor

Intel® Celeron® Processor J1000 Series* for Desktop or
Intel Pentium® Processor J2000 Series* for Desktop

Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics
Celeron J1800	2 / 2	2.58 / 2.41 GHz	1MB	DDR3L-1333	Intel HD
Pentium J2900	4 / 4	2.58 / 2.41 GHz	2MB	DDR3L-1333	Intel HD

Chipset

Intel one-chip platform, integrates processor core, graphics, memory controller, and Platform Controller Hub (PCH) in one chip

Graphics

Intel HD Graphics in processor, uses main memory, DirectX® 11,
one VGA, one DisplayPort™, supports dual independent display;
Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz

Monitor cable

Optional DisplayPort to DVI-D or DisplayPort to HDMI monitor cable

Memory

8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
* System automatically clocks down for processors with1333MHz DDR3 memory controller

Storage

Some: 8GB or 16GB / DOM (Disk On Module) Card
Some: SATA 3.0Gb/s, 2.5" Wide, 5400 or 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 3.0Gb/s, 2.5" wide

Optical

Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide
Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB
Some: external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB

Onboard SATA

SATA 3.0Gb/s controller, one connectors on planar

Media reader

None

Front ports

One USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort, one optional port (USB 2.0 or serial on selected models)

I/O box

Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

Audio support

High Definition (HD) Audio, Realtek ALC283 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®

Modem

None

Manageability

None

Security chip

None

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

USB: Preferred Pro USB Keyboard (USB connector), Lenovo logo
USB(Slim): Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo
2.4G: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

USB: Enhanced Optical USB Mouse, black, Lenovo logo
2.4G: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Tiny (1L), business black color; metal case

M53 Tiny only:
7.0" W X 7.2" D X 1.4" H
179mm W X 182mm D X 34.5mm H
2.9 lb (1.3 kg), weight may vary by configuration
With VESA mount & optical box:
7.2" W X 7.2" D X 2.55" H
184mm W X 182mm D X 65mm H
4.6 lb (2.1 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty[3]

Some: 1-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, IWS (International Warranty Service[9]) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 8.1 with Bing 64-bit
Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Environment

ENERGY STAR® 6.0 (for Windows models only);
GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M53 Tiny (10EC) - Thin Client

Product Specifications Reference (PSREF)

Model	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	Monitor Cable	Chassis Intrusion Switch	Floor Stand	VESA Mount	Keyboard/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10EC000HUS	Celeron J1800	2GBx1	Intel HD	16GB DOM Card	None	None	None	None	None	None	None	USB	Speaker	65W	None	WES7	1-onsite	No	12/14
10EC000JUS	Celeron J1800	4GBx1	Intel HD	16GB DOM Card	None	RTL8723BE	None	None	None	None	None	USB	Speaker	65W	None	WES7	1-onsite	No	12/14
10EC000KUS	Celeron J1800	2GBx1	Intel HD	8GB DOM Card	None	None	None	None	None	None	None	USB	Speaker	65W	None	LeTOS	1-onsite	No	12/14
10EC000LUS	Celeron J1800	4GBx1	Intel HD	8GB DOM Card	None	RTL8723BE	None	None	None	None	None	USB	Speaker	65W	None	LeTOS	1-onsite	No	12/14
10EC000NUS	Celeron J1800	2GBx1	Intel HD	16GB DOM Card	None	RTL8723BE	None	None	None	None	None	USB	Speaker	65W	None	WES7	1-onsite	No	01/15
10EC000MUS	Celeron J1800	2GBx1	Intel HD	8GB DOM Card	None	RTL8723BE	None	None	None	None	None	USB	Speaker	65W	None	LeTOS	1-onsite	No	01/15

- *For detailed platform specifications, please see ThinkCentre M53 Tiny Platform Specifications sheet*

Processor

Intel® Celeron® Processor J1000 Series* for Desktop or
Intel Pentium® Processor J2000 Series* for Desktop

Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics
Celeron J1800	2 / 2	2.58 / 2.41 GHz	1MB	DDR3L-1333	Intel HD
Pentium J2900	4 / 4	2.58 / 2.41 GHz	2MB	DDR3L-1333	Intel HD

Chipset

Intel one-chip platform, integrates processor core, graphics, memory controller, and Platform Controller Hub (PCH) in one chip

Graphics

Intel HD Graphics in processor, uses main memory, DirectX® 11,
one VGA, one DisplayPort™, supports dual independent display;
Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz

Monitor cable

Optional DisplayPort to DVI-D or DisplayPort to HDMI monitor cable

Memory

8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
* System automatically clocks down for processors with1333MHz DDR3 memory controller

Storage

Some: 8GB or 16GB / DOM (Disk On Module) Card
Some: SATA 3.0Gb/s, 2.5" Wide, 5400 or 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 3.0Gb/s, 2.5" wide

Optical

Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide
Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB
Some: external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB

Onboard SATA

SATA 3.0Gb/s controller, one connectors on planar

Media reader

None

Front ports

One USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort, one optional port (USB 2.0 or serial on selected models)

I/O box

Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

Audio support

High Definition (HD) Audio, Realtek ALC283 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®

Modem

None

Manageability

None

Security chip

None

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

USB: Preferred Pro USB Keyboard (USB connector), Lenovo logo
USB(Slim): Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo
2.4G: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

USB: Enhanced Optical USB Mouse, black, Lenovo logo
2.4G: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Tiny (1L), business black color; metal case

M53 Tiny only:
7.0" W X 7.2" D X 1.4" H
179mm W X 182mm D X 34.5mm H
2.9 lb (1.3 kg), weight may vary by configuration
With VESA mount & optical box:
7.2" W X 7.2" D X 2.55" H
184mm W X 182mm D X 65mm H
4.6 lb (2.1 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty[3]

Some: 1-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, IWS (International Warranty Service[9]) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 8.1 with Bing 64-bit
Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Environment

ENERGY STAR® 6.0 (for Windows models only);
GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre

ThinkCentre M73 Tiny
with Optional WLAN

ThinkCentre M73 Tiny with
ThinkVision Monitor

ThinkCentre M73 Tiny
with optional I/O Box

ThinkCentre M73 Tiny with
ThinkVision Monitor

ThinkCentre M73 Tiny with
optional External Optical Box

ThinkCentre M73 Tiny

ThinkCentre M73 Small
and Mini Tower

ThinkCentre M73 Small
with ThinkVision Monitor

ThinkCentre M73 Small

ThinkCentre M73 Mini Tower
with ThinkVision Monitor

ThinkCentre M73 Mini Tower

ThinkCentre M73 Mini Tower

ThinkCentre M73 Tiny (10AY) - Thin Client (TopSeller)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Flash Memory	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Preload	Ann date *(mm/dd/yy)*
10AY0037US	G1820T	2GBx1	8G DOM Card	None	Intel HD	Intel 105	None	None	Stand	None	USB	WES 7	02/25/14
10AY0038US	G1820T	2GBx1	8G DOM Card	None	Intel HD	Intel 105	None	None	Stand	None	USB	LeTOS	02/25/14
10AY0039US	G1820T	4GBx1	8G DOM Card	None	Intel HD	Intel 105	None	None	Stand	None	USB	WES 7	02/25/14

- *1-year depot warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Celeron® G1820T Processor** (**2 cores / 2 threads**, 2.4GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Flash Memory	8GB / DOM (Disk On Module) Card
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional System floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Mechanical	• Tiny (1L), business black color; metal case • *M73 Tiny only:* 7.0" W X 7.2" D X 1.4" H; 179mm W X 182mm D X 34.5mm H; 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H; 184mm W X 182mm D X 65mm H; 5.1lb (2.3 kg), weight may vary by configuration
Limited Warranty	**1-years** - depot repair service / service upgrades available

Preloaded operating system

Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)

- WES 7 only:

- Intel Management Engine Components
- RDP Client
- Citrix Client
- VMware Client
- Internet Explorer 9
- Java
- Flash
- .Net Framework
- Microsoft® Silverlight
- Echo Agent
- Ultra VNC
- Adobe Reader
- Intel Manageability Engine Firmware Recovery Agent

- LeTOS only:

- xFreeRDP
- Citrix ICA Client
- VMware View Client
- Java
- Mozilla Firefox
- NX NoMachine Client
- X11 Client
- VDI-In-A-Box Java Client
- AnyConnect VPN Client

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating (WES models)
ENERGY STAR® 6.0 (WES models) \
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced February 25, 2013

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ThinkCentre M73 Tiny (10AY) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Preload	Ann date *(mm/dd/yy)*
10AY0005US	i5-4570T	4GBx1	128G SSD	DVD±RW	HD 4600	Intel 2230	USB	None	None	Mount	USB	Win7 Pro64 (DG)	10/01/13
10AY0006US	i7-4765T	4GBx1	128G SSD	DVD±RW	HD 4600	Intel 2230	USB	None	None	Mount	USB	Win7 Pro64 (DG)	10/01/13
10AY001RUS	i3-4130T	4GBx1	500G 7200	None	HD 4400	Intel 105	None	None	Stand	None	USB	Win7 Pro64 (DG)	10/01/13
10AY001SUS	i3-4130T	4GBx1	500G Hybrid	None	HD 4400	Intel 105	None	None	Stand	None	USB	Win7 Pro64 (DG)	10/01/13
10AY001TUS	G3220T	4GBx1	500G 7200	None	Intel HD	Intel 105	None	None	Stand	None	USB	Win7 Pro64 (DG)	10/01/13
10AY001UUS	G3220T	4GBx1	500G Hybrid	None	Intel HD	Intel 105	None	None	None	Mount	USB	Win7 Pro64 (DG)	10/01/13
10AY001VUS	i3-4130T	8GBx1	500G Hybrid	None	HD 4400	Intel 2230	None	None	None	Mount	USB	Win7 Pro64 (DG)	10/01/13
10AY001WUS	i3-4130T	4GBx1	500G 7200	DVD±RW	HD 4400	Intel 105	None	None	None	Mount	USB	Win7 Pro64 (DG)	10/01/13
10AY001XUS	i5-4570T	4GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 105	USB	None	None	Mount	USB	Win7 Pro64 (DG)	10/22/13
10AY0004US	i5-4570T	4GBx1	500G Hybrid	DVD±RW	HD 4600	None	USB	None	None	Mount	USB	Win7 Pro64 (DG)	10/22/13
10AY0020US	i5-4570T	4GBx1	128G SSD	None	HD 4600	Intel 2230	None	None	Stand	None	USB	Win7 Pro64 (DG)	11/12/13
10AY001YUS	i5-4570T	4GBx1	500G Hybrid	None	HD 4600	Intel 2230	None	None	Stand	None	USB	Win7 Pro64 (DG)	11/12/13
10AY002SUS	G1820T	4GBx1	500G 7200	None	Intel HD	7260 ac	None	None	Stand	None	USB	Win7 P64 DG Win8.1	01/14/14
10AY003AUS	i5-4570T	4GBx1	128G SSD	None	HD 4600	Intel 6235	None	None	Stand	None	USB	Win7 Pro64 (DG)	02/11/14

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Celeron® G1820T Processor** (**2 cores / 2 threads**, 2.4GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Pentium® G3220T Processor** (**2 cores / 2 threads**, 2.6GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570T Processor** (**2 cores / 4 threads**, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4765T Processor** (**4 cores / 8 threads**, 2.0GHz, 8MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1333MHz memory controller*
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 2.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + BT combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®
Intel AMT	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional System floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Mechanical	• Tiny (1L), business black color; metal case • *M73 Tiny only:* 7.0" W X 7.2" D X 1.4" H; 179mm W X 182mm D X 34.5mm H; 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H; 184mm W X 182mm D X 65mm H; 5.1lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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US model(s) announced Oct 1, Oct 22, or Nov 12, 2013 or Jan 14 or Feb 11, 2014

(MLM1N-1) February 2014

ThinkCentre M73 Tiny (10AY) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Key-board / mouse	Warranty (year)	Preload	Ann date *(mm/dd/yy)*
10AY003JUS	G3220T	4GBx1	500G 7200	None	Intel HD	BCM4352	Serial	None	Stand	None	USB	3-onsite	Win7 P64 DG Win8.1	04/01/14
10AY003KUS	i5-4570T	4GBx1	500G 7200	None	HD 4600	N7260	Serial	None	Stand	None	USB	3-onsite	Win7 P64 DG Win8.1	04/01/14
10AY003HUS	i3-4130T	4GBx1	500G 7200	None	HD 4400	N7260	Serial	None	Stand	None	USB	3-onsite	Win7 P64 DG Win8.1	04/01/14
10AY008HUS	i5-4570T	4GBx1	128G SSD	None	HD 4600	N105	None	None	None	None	USB	1-onsite	Win7 P64 DG Win8	02/10/15
10AY008GUS	i3-4130T	4GBx1	500G 7200	None	HD 4400	N105	None	None	None	None	USB	1-onsite	Win7 P64 DG Win8	02/10/15

●*Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G3220T Processor** (**2 cores / 2 threads**, 2.6GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570T Processor** (**2 cores / 4 threads**, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1333MHz memory controller*
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 2.5" Wide, 7200 rpm\ *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	None
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11ac/b/g/n wireless, PCIe Half Mini Card, Broadcom BCM4352, dual band (2.4/5GHz), Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®
Intel AMT	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional System floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Mechanical	● Tiny (1L), business black color; metal case ● *M73 Tiny only:* 7.0" W X 7.2" D X 1.4" H, 179mm W X 182mm D X 34.5mm H, 2.9 lb (1.3 kg), weight may vary by configuration ● *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H, 184mm W X 182mm D X 65mm H, 5.1lb (2.3 kg), weight may vary by configuration
Limited Warranty	**1-year or 3-year**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M73 Tiny (10AY) - TopSeller - III

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Preload	Ann date *(mm/dd/yy)*
10AY0081US	G3240T	4GBx1	500G 5400	None	Intel HD	8723BE	None	None	Stand	None	USB(slim)	Win7 P64 DG Win8.1	10/14/14
10AY0082US	i3-4150T	4GBx1	500G 7200	None	HD 4400	7260 b/g/n	None	None	Stand	None	USB	Win7 P64 DG Win8.1	10/14/14
10AY0083US	i3-4150T	4GBx1	180G SSD	None	HD 4400	7260 b/g/n	None	None	Stand	None	USB	Win7 P64 DG Win8.1	10/14/14
10AY0085US	i3-4150T	8GBx1	256G SSD	None	HD 4400	7260 b/g/n	None	None	Stand	None	USB	Win7 P64 DG Win8.1	10/14/14
10AY0086US	i3-4150T	4GBx1	500G 7200	None	HD 4400	7260 b/g/n	Serial	None	Stand	None	USB	Win7 P64 DG Win8.1	10/14/14
10AY0087US	i3-4150T	4GBx1	500G 7200	None	HD 4400	7260 b/g/n	Serial	None	None	Mount	USB	Win7 P64 DG Win8.1	10/14/14
10AY0088US	i5-4590T	8GBx1	256G SSD	None	HD 4600	7260 b/g/n	None	None	Stand	None	USB	Win7 P64 DG Win8.1	10/14/14
10AY0089US	i5-4590T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	None	None	Stand	None	USB	Win7 P64 DG Win8.1	10/14/14
10AY008AUS	i5-4590T	4GBx1	180G SSD	None	HD 4600	7260 b/g/n	None	None	Stand	None	USB	Win7 P64 DG Win8.1	10/14/14
10AY008BUS	i5-4590T	4GBx1	180G SSD	None	HD 4600	7260 b/g/n	Serial	None	Stand	None	USB	Win7 P64 DG Win8.1	10/14/14
10AY008CUS	i5-4590T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	Serial	None	Stand	None	USB	Win7 P64 DG Win8.1	10/14/14
10AY008DUS	i7-4785T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	Serial	None	Stand	None	USB	Win7 P64 DG Win8.1	10/14/14
10AY008EUS	i7-4785T	8GBx1	256G SSD	None	HD 4600	7260 b/g/n	Serial	None	Stand	None	USB	Win7 P64 DG Win8.1	10/14/14
10AY008FUS	i7-4785T	4GBx1	180G SSD	None	HD 4600	7260 b/g/n	Serial	None	Stand	None	USB	Win7 P64 DG Win8.1	10/14/14

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G3240T Processor** (**2 cores / 2 threads**, 2.7GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4150T Processor** (**2 cores / 4 threads**, 3.0GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4590T Processor** (**4 cores / 4 threads**, 2.0GHz, 6MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4785T Processor** (**4 cores / 8 threads**, 2.2GHz, 8MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1333MHz memory controller*
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* harddisk, 2.5" Wide, 5400 or 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT 4.0 combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi/BT 4.0, 1x1
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®
Intel AMT	None
Security chip	None
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo *Some:* Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional System floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Mechanical	• Tiny (1L), business black color; metal case • *M73 Tiny only:* 7.0" W X 7.2" D X 1.4" H; 179mm W X 182mm D X 34.5mm H; 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H; 184mm W X 182mm D X 65mm H; 5.1lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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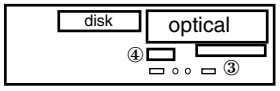
ThinkCentre M73 Small (10B6) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	Floor stand	ENERGY STAR 6.0	Global	Preload	Ann date *(mm/dd/yy)*
10B60008US	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10B60009US	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10B6000AUS	3x4	G3220	2GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10B6000BUS	3x4	G3220	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10B6000FUS	3x4	i3-4130	8GBx1	1TB 7200	DVD±RW	N105	None	GT620	None	Serial	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10B6000GUS	3x4	G3220	4GBx1	500G Hybrid	DVD±RW	N105	None	Intel HD	None	Serial	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10B6000PUS	3x4	i5-4570	4GBx1	128G SSD	DVD±RW	None	None	HD 4600	None	None	Stand	None	None	Win7 Pro64 (DG)	11/12/13
10B6000QUS	3x4	i7-4770	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	Stand	None	None	Win7 Pro64 (DG)	11/12/13
10B6000RUS	3x4	i7-4770	4GBx1	500G Hybrid	DVD±RW	None	None	HD 4600	None	None	Stand	None	None	Win7 Pro64 (DG)	11/12/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	*Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Speaker	Internal speaker for business audio (1 watt) (**No internal speaker for 10B6000PUS*)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	240 watts, autosensing, active PFC
Machine	• Business black color; metal case • 13.2" W X 15.0" D X 3.9" H • 335mm W X 382mm D X 101mm H • 14.6 lb (6.6 kg) in maximum configuration • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 2.5", N/A, no access, opt 2nd SSD* Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: Low Profile, PCIe 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced October 1, 2013 or November 12, 2013

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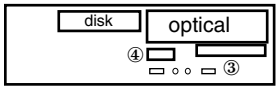
ThinkCentre M73 Small (10B6) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	Floor stand	ENERGY STAR 6.0	Global	Preload	Ann date *(mm/dd/yy)*
10B6000XUS	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	None	None	Stand	None	None	Win7 P64 DG Win8.1	02/04/14
10B6000YUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	None	None	Stand	None	None	Win7 P64 DG Win8.1	02/04/14
10B60011US	3x4	G1820	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	None	None	Stand	None	None	Win7 P64 DG Win8.1	02/04/14
10B60013US	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	Stand	None	None	Win7 P64 DG Win8.1	02/11/14
10B60012US	3x4	G3220	2GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	Stand	None	None	Win7 P64 DG Win8.1	02/11/14
10B60014US	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	Stand	None	None	Win7 P64 DG Win8.1	02/11/14
10B60015US	3x4	i5-4570	4GBx1	128G SSD	DVD±RW	None	None	HD 4600	None	None	Stand	None	None	Win7 P64 DG Win8.1	03/25/14

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Celeron® G1820 Processor** (**2 cores / 2 threads**, 2.7GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	*Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	240 watts, autosensing, active PFC
Machine	• Business black color; metal case • 13.2" W X 15.0" D X 3.9" H • 335mm W X 382mm D X 101mm H • 14.6 lb (6.6 kg) in maximum configuration • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 2.5", N/A, no access, opt 2nd SSD* Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: Low Profile, PCIe 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced February 4 or 11 or March 25, 2014

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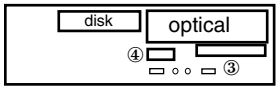
ThinkCentre M73 Small (10B6) - TopSeller - III

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	Floor stand	ENERGY STAR 6.0	Global	Preload	Ann date *(mm/yy)*
10B6001SUS	3x4	i5-4590	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10B6001NUS	3x4	i3-4150	4GBx1	180G SSD	DVD±RW	None	None	HD 4400	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10B6001AUS	3x4	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10B6001RUS	3x4	G3240	2GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10B6001TUS	3x4	i5-4590	8GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10B6001PUS	3x4	i3-4150	8GBx1	256G SSD	DVD±RW	None	None	HD 4400	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10B6001VUS	3x4	i5-4590	4GBx1	180G SSD	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10B6001QUS	3x4	G3240	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10B6001UUS	3x4	i5-4590	8GBx1	256G SSD	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10B6001WUS	3x4	i5-4590	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10B6001YUS	3x4	i3-4150	4GBx1	1TB 7200	DVD±RW	7260 b/g/n	None	HD 4400	None	P	None	None	None	Win7 P64 DG Win8.1	10/14
10B6001XUS	3x4	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	P	None	None	None	Win7 P64 DG Win8.1	10/14

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G3240 Processor** (**2 cores / 2 threads**, 3.1GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4150 Processor** (**2 cores / 4 threads**, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4590 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	*Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	240 watts, autosensing, active PFC
Machine	• Business black color; metal case • 13.2" W X 15.0" D X 3.9" H • 335mm W X 382mm D X 101mm H • 14.6 lb (6.6 kg) in maximum configuration • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 2.5", N/A, no access, opt 2nd SSD* Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: Low Profile, PCIe 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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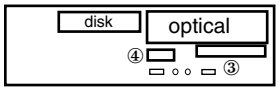
ThinkCentre M73 Small (10B5) - ES 6.0 (TopSeller)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	Floor stand	ENERGY STAR 6.0	Internal Speaker	Preload	Ann date *(mm/dd/yy)*
10B50001US	3x4	i5-4570	4GBx2	500G Hybrid	DVD±RW	N2230	None	GT 620	None	S P	None	ES6.0	Speaker	Win7 Pro64 (DG)	10/13
10B5000MUS	3x4	G1820	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	Floor	ES6.0	Speaker	Win7 P64 DG Win8.1	01/14
10B5000TUS	3x4	G3240	2GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	Floor	ES6.0	Speaker	Win7 P64 DG Win8.1	10/14
10B5000WUS	3x4	i3-4150	2GBx1	1TB 7200	DVD±RW	7260 b/g/n	None	HD 4400	None	None	Floor	ES6.0	None	Win7 P64 DG Win8.1	10/14
10B5000VUS	3x4	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	Floor	ES6.0	None	Win7 P64 DG Win8.1	10/14
10B5000UUS	3x4	G3240	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	Floor	ES6.0	Speaker	Win7 P64 DG Win8.1	10/14

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Celeron® G1820 Processor** (**2 cores / 2 threads**, 2.7GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Pentium® G3240 Processor** (**2 cores / 2 threads**, 3.1GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4150 Processor** (**2 cores / 4 threads**, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	*Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Speaker	Optional internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	*Some:* 240 watts, autosensing, active PFC, 85% PSU
Machine	• Business black color; metal case • 13.2" W X 15.0" D X 3.9" H • 335mm W X 382mm D X 101mm H • 14.6 lb (6.6 kg) in maximum configuration • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 2.5", N/A, no access, opt 2nd SSD* Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: Low Profile, PCIe 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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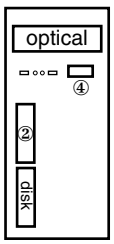
ThinkCentre M73 Mini Tower (10B0) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	ENERGY STAR 6.0	Global	Preload	Ann date *(mm/dd/yy)*
10B00005US	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG Win8	10/01/13
10B00006US	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	None	None	Win7 P64 DG Win8	10/01/13
10B00007US	3x4	G3220	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	S P	None	None	Win7 P64 DG Win8	10/01/13
10B00008US	3x4	i7-4770	8GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	S P	None	None	Win7 P64 DG Win8	10/01/13
10B0000GUS	3x4	i5-4570	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG Win8	10/22/13
10B0000HUS	3x4	i5-4570	4GBx1	128G SSD	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG Win8	11/12/13
10B0000JUS	3x4	i5-4570	4GBx1	1TB Hybrid	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG Win8	11/12/13
10B0000KUS	3x4	i3-4130	4GBx1	2 x 500G 7200	DVD±RW	None	None	HD 7450	None	None	None	None	Win7 P64 DG Win8.1	02/04/14
10B0000LUS	3x4	i5-4570	4GBx1	2 x 500G 7200	DVD±RW	None	None	HD 7450	None	None	None	None	Win7 P64 DG Win8.1	02/04/14
10B0000NUS	3x4	G3220	4GBx1	2 x 500G 7200	DVD±RW	None	None	HD 7450	None	None	None	None	Win7 P64 DG Win8.1	02/04/14
10B0000QUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	None	None	Win7 P64 DG Win8.1	02/11/14
10B0000RUS	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG Win8.1	02/11/14

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	*Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	None
Bluetooth	None
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, active PFC
Mechanical	• Business black color; metal case • 6.3" W X 16.6" D X 15.3" H (with handle) • 160mm W X 422mm D X 388mm H • 20.7 lb (9.4 kg) in maximum configuration • Handle on top front • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk* Bay 3: 3.5", 1" high, no access, std disk Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: half-length, full-height, PCIe 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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US model(s) announced October 1 or 22, November 12, 2013, or February 4 or 11, 2014

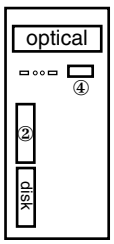
(MLM1T-1) February 2014

ThinkCentre M73 Mini Tower (10B0) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	ENERGY STAR 6.0	Global	Preload	Ann date *(mm/dd/yy)*
10B00017US	3x4	G3240	4GBx2	500G 7200	DVD±RW	None	None	Intel HD	None	None	None	None	Win7 P64 DG Win8.1	10/28/14
10B00016US	3x4	i5-4590	4GBx1	1TB 7200	DVD±RW	7260 b/g/n	None	HD 7450	None	None	None	None	Win7 P64 DG Win8.1	10/28/14
10B00019US	3x4	i7-4790	8GBx1	1TB 7200	DVD±RW	7260 b/g/n	None	HD 4600	None	None	None	None	Win7 P64 DG Win8.1	10/28/14
10B00011US	3x4	G3240	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	None	None	Win7 P64 DG Win8.1	10/28/14
10B00014US	3x4	i5-4590	8GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG Win8.1	10/28/14
10B00013US	3x4	i5-4590	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG Win8.1	10/28/14
10B00012US	3x4	G3240	4GBx1	1TB 7200	DVD±RW	7260 b/g/n	None	Intel HD	None	None	None	None	Win7 P64 DG Win8.1	10/28/14
10B00018US	3x4	i7-4790	4GBx1	500G 7200	DVD±RW	7260 b/g/n	None	HD 4600	None	None	None	None	Win7 P64 DG Win8.1	10/28/14
10B00015US	3x4	i5-4590	4GBx1	1TB 7200	DVD±RW	7260 b/g/n	None	HD 4600	None	None	None	None	Win7 P64 DG Win8.1	10/28/14

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G3240 Processor** (**2 cores / 2 threads**, 3.1GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i5-4590 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4790 Processor** (**4 cores / 8 threads**, 3.6GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	*Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, active PFC
Mechanical	• Business black color; metal case • 6.3" W X 16.6" D X 15.3" H (with handle) • 160mm W X 422mm D X 388mm H • 20.7 lb (9.4 kg) in maximum configuration • Handle on top front • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk* Bay 3: 3.5", 1" high, no access, std disk Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: half-length, full-height, PCIe 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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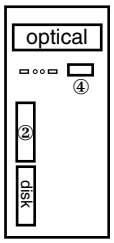
ThinkCentre M73 Mini Tower (10B2) - ES 6.0 (TopSeller)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	ENERGY STAR 6.0	Global	Preload	Ann date *(mm/dd/yy)*
10B20002US	3x4	i5-4670	4GBx2	500G Hybrid	DVD±RW	N2230	None	GT 620	None	S P	ES6.0	None	Win7 Pro64 (DG)	10/01/13
10B2000QUS	3x4	G1820	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	ES6.0	None	Win7 P64 DG Win8.1	01/14/14

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Celeron® G1820 Processor** (**2 cores / 2 threads**, 2.7GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i5-4670 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	*Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	*Some:* 280 watts, autosensing, active PFC, 85% PSU
Mechanical	• Business black color; metal case • 6.3" W X 16.6" D X 15.3" H (with handle) • 160mm W X 422mm D X 388mm H • 20.7 lb (9.4 kg) in maximum configuration • Handle on top front • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk* Bay 3: 3.5", 1" high, no access, std disk Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: half-length, full-height, PCIe 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced October 1, 2013 or January 14, 2014

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ThinkCentre M73 Tiny (10AX) - Thin Client

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Flash Memory	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Preload	Ann date *(mm/dd/yy)*
10AX005GUS	G1820T	2GBx1	8G DOM Card	None	Intel HD	Intel 105	None	None	Stand	None	USB	WES 7	02/25/14
10AX005HUS	G1820T	2GBx1	8G DOM Card	None	Intel HD	Intel 105	None	None	Stand	None	USB	LeTOS	02/25/14

- *1-year depot warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Celeron® G1820T Processor** (**2 cores / 2 threads**, 2.4GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Flash Memory	8GB / DOM (Disk On Module) Card
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional System floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Mechanical	• Tiny (1L), business black color; metal case • *M73 Tiny only:* 7.0" W X 7.2" D X 1.4" H; 179mm W X 182mm D X 34.5mm H; 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H; 184mm W X 182mm D X 65mm H; 5.1lb (2.3 kg), weight may vary by configuration
Limited Warranty	**1-years** - depot repair service / service upgrades available

Preloaded operating system

Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)

- WES 7 only:

- Intel Management Engine Components
- RDP Client
- Citrix Client
- VMware Client
- Internet Explorer 9
- Java
- Flash
- .Net Framework
- Microsoft® Silverlight
- Echo Agent
- Ultra VNC
- Adobe Reader
- Intel Manageability Engine Firmware Recovery Agent

- LeTOS only:

- xFreeRDP
- Citrix ICA Client
- VMware View Client
- Java
- Mozilla Firefox
- NX NoMachine Client
- X11 Client
- VDI-In-A-Box Java Client
- AnyConnect VPN Client

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating (WES models)
ENERGY STAR® 6.0 (WES models)
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced February 25, 2013

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ThinkCentre M73 Tiny (10DK) - Thin Client

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Flash Memory	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Preload	Ann date *(mm/dd/yy)*
10DK0009US	G1820T	2GBx1	16G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	10/17/14
10DK000BUS	G1820T	4GBx1	16G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	10/17/14
10DK000DUS	G1820T	2GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	LeTOS	10/17/14
10DK000EUS	G1820T	4GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	LeTOS	10/17/14
10DK000FUS	G1820T	2GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	10/17/14
10DK000GUS	i5-4460T	4GBx1	16G DOM Card	None	HD 4600	None	None	None	None	None	USB	WES 7	10/17/14
10DK000HUS	i3-4150T	4GBx1	16G DOM Card	None	HD 4400	None	None	None	None	None	USB	WES 7	10/17/14
10DK000JUS	i3-4150T	2GBx1	16G DOM Card	None	HD 4400	None	None	None	None	None	USB	WES 7	10/17/14
10DK000KUS	G1820T	4GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	10/17/14

- *1-year onsite warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Celeron® G1820T Processor** (**2 cores / 2 threads**, 2.4GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4150T Processor** (**2 cores / 4 threads**, 3.0GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4460T Processor** (**4 cores / 4 threads**, 1.9GHz, 6MB cache), Turbo Boost 2.0 (2.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Flash Memory	8GB or 16GB / DOM (Disk On Module) Card
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional System floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Mechanical	• Tiny (1L), business black color; metal case • *M73 Tiny only:* 7.0" W X 7.2" D X 1.4" H; 179mm W X 182mm D X 34.5mm H; 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H; 184mm W X 182mm D X 65mm H; 5.1lb (2.3 kg), weight may vary by configuration
Limited Warranty	**1-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)

- WES 7 only:

- Intel Management Engine Components
- RDP Client
- Citrix Client
- VMware Client
- Internet Explorer 9
- Java
- Flash
- .Net Framework
- Microsoft® Silverlight
- Echo Agent
- Ultra VNC
- Adobe Reader
- Intel Manageability Engine Firmware Recovery Agent

- LeTOS only:

- xFreeRDP
- Citrix ICA Client
- VMware View Client
- Java
- Mozilla Firefox
- NX NoMachine Client
- X11 Client
- VDI-In-A-Box Java Client
- AnyConnect VPN Client

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating (WES models)
ENERGY STAR® 6.0 (WES models)
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced February 25, 2013

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ThinkCentre M73 Tiny (10DL) - Thin Client

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Flash Memory	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Preload	Warranty (year)	Ann date *(mm/yy)*
10DL0001US	G1820T	2GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	LeTOS	1-onsite	10/14
10DL0006US	G1820T	4GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	3-onsite	10/14
10DL0003US	G1820T	2GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	LeTOS	3-onsite	10/14
10DL0005US	G1820T	2GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	1-onsite	10/14
10DL0004US	G1820T	4GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	LeTOS	3-onsite	10/14
10DL0007US	G1820T	2GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	3-onsite	10/14
10DL0002US	G1820T	4GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	LeTOS	1-onsite	10/14
10DL000BUS	G1820T	4GBx1	16G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	3-onsite	10/14
10DL0008US	G1820T	4GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	1-onsite	10/14
10DL000AUS	G1820T	4GBx1	16G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	1-onsite	10/14
10DL0009US	G1820T	2GBx1	16G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	1-onsite	10/14
10DL000CUS	G1820T	2GBx1	16G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	3-onsite	10/14

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Celeron® G1820T Processor** (**2 cores / 2 threads**, 2.4GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Flash Memory	8GB or 16GB / DOM (Disk On Module) Card
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional System floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Mechanical	• Tiny (1L), business black color; metal case • *M73 Tiny only:* 7.0" W X 7.2" D X 1.4" H, 179mm W X 182mm D X 34.5mm H, 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H, 184mm W X 182mm D X 65mm H, 5.1lb (2.3 kg), weight may vary by configuration
Limited Warranty	**1-years or 3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)

- WES 7 only:

- Intel Management Engine Components
- RDP Client
- Citrix Client
- VMware Client
- Internet Explorer 9
- Java
- Flash
- .Net Framework
- Microsoft® Silverlight
- Echo Agent
- Ultra VNC
- Adobe Reader
- Intel Manageability Engine Firmware Recovery Agent

- LeTOS only:

- xFreeRDP
- Citrix ICA Client
- VMware View Client
- Java
- Mozilla Firefox
- NX NoMachine Client
- X11 Client
- VDI-In-A-Box Java Client
- AnyConnect VPN Client

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating (WES models)
ENERGY STAR® 6.0 (WES models)
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced February 25, 2013

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ThinkCentre M73 Tiny (10AX)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Preload	Ann date *(mm/dd/yy)*
10AX001WUS	i5-4570T	4GBx1	500G 7200	DVD±RW	HD 4600	Intel 105	None	None	None	Mount	USB	Win7 P64 DG Win8	10/01/13
10AX001XUS	i5-4570T	4GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 2230	None	None	None	Mount	USB	Win7 P64 DG Win8	10/01/13
10AX001YUS	i7-4765T	8GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 2230	None	None	None	Mount	USB	Win7 P64 DG Win8	10/01/13
10AX003WUS	i3-4130T	4GBx1	500G 7200	None	HD 4400	Intel 105	None	None	Stand	None	USB	Win7 P64 DG Win8	10/01/13
10AX003YUS	i3-4130T	4GBx1	500G 7200	DVD±RW	HD 4400	Intel 105	None	None	None	Mount	USB	Win7 P64 DG Win8	10/01/13
10AX0040US	G3220T	4GBx1	500G 7200	DVD±RW	Intel HD	Intel 105	None	None	None	Mount	USB	Win7 P64 DG Win8	10/01/13
10AX0041US	G3220T	4GBx1	500G 7200	None	Intel HD	Intel 105	None	None	Stand	None	USB	Win7 P64 DG Win8	10/01/13
10AX0042US	i3-4130T	4GBx1	500G Hybrid	None	HD 4400	Intel 2230	None	None	Stand	None	USB	Win7 P64 DG Win8	10/01/13
10AX0067US	i5-4570T	4GBx1	500G 7200	None	HD 4600	N7260	Serial	None	Stand	None	USB	Win7 P64 DG Win8.1	04/01/14
10AX0065US	G1820T	4GBx1	500G 7200	None	Intel HD	BCM4352	Serial	None	Stand	None	USB	Win7 P64 DG Win8.1	04/01/14
10AX0066US	i3-4130T	4GBx1	500G 7200	None	HD 4400	N7260	Serial	None	Stand	None	USB	Win7 P64 DG Win8.1	04/01/14

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Celeron® G1820T Processor** (**2 cores / 2 threads**, 2.4GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Pentium® G3220T Processor** (**2 cores / 2 threads**, 2.6GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570T Processor** (**2 cores / 4 threads**, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4765T Processor** (**4 cores / 8 threads**, 2.0GHz, 8MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 2.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11ac/b/g/n wireless, PCIe Half Mini Card, Broadcom BCM4352, dual band (2.4/5GHz), Wi-Fi + Bluetooth 4.0 combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional System floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Mechanical	• Tiny (1L), business black color; metal case • *M73 Tiny only:* 7.0" W X 7.2" D X 1.4" H; 179mm W X 182mm D X 34.5mm H; 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H; 184mm W X 182mm D X 65mm H; 5.1lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced October 1, 2013 or April 1, 2014

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ThinkCentre M73 Tiny (10AX) - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Preload	Ann date *(mm/dd/yy)*
10AX008TUS	i5-4590T	8GBx1	500G 7200	None	HD 4600	7260 b/g/n	Serial	None	None	Mount	USB	Win7 P64 DG Win8.1	10/28/14
10AX008KUS	i3-4150T	4GBx1	500G 7200	None	HD 4400	7260 b/g/n	None	None	None	None	USB	Win7 P64 DG Win8.1	10/28/14
10AX008QUS	i5-4590T	4GBx1	256G SSD	None	HD 4600	7260 b/g/n	USB	None	None	Mount	USB	Win7 P64 DG Win8.1	10/28/14
10AX008NUS	i3-4150T	8GBx1	256G SSD	None	HD 4400	7260 b/g/n	USB	None	None	None	USB	Win7 P64 DG Win8.1	10/28/14
10AX008LUS	i3-4150T	4GBx1	180G SSD	None	HD 4400	7260 b/g/n	Serial	None	None	None	USB	Win7 P64 DG Win8.1	10/28/14
10AX008PUS	i5-4590T	4GBx1	500G 7200	DVD±RW	HD 4600	7260 b/g/n	USB	None	None	Mount	USB	Win7 P64 DG Win8.1	10/28/14

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Core™ i3-4150T Processor** (**2 cores / 4 threads**, 3.0GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4590T Processor** (**4 cores / 4 threads**, 2.0GHz, 6MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 2.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11ac/b/g/n wireless, PCIe Half Mini Card, Broadcom BCM4352, dual band (2.4/5GHz), Wi-Fi + Bluetooth 4.0 combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional System floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Mechanical	• Tiny (1L), business black color; metal case • *M73 Tiny only:* 7.0" W X 7.2" D X 1.4" H, 179mm W X 182mm D X 34.5mm H, 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H, 184mm W X 182mm D X 65mm H, 5.1lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M73 Tiny (10AX) - 1-year depot

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Preload	Ann date *(mm/dd/yy)*
10AX003XUS	i3-4130T	4GBx1	500G 7200	None	HD 4400	Intel 105	None	None	Stand	None	USB	Win7 Pro64 (DG)	10/01/13
10AX0057US	G1820T	4GBx1	500G 7200	None	Intel HD	N7260	None	None	Stand	None	USB	Win7 P64 DG Win8.1	01/14/14

●*A depot repair service 1-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Celeron® G1820T Processor** (**2 cores / 2 threads**, 2.4GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 2.5" Wide, 7200 rpm
External optical	None
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional System floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Mechanical	● Tiny (1L), business black color; metal case ● *M73 Tiny only:* 7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.9 lb (1.3 kg), weight may vary by configuration ● *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H 184mm W X 182mm D X 65mm H 5.1lb (2.3 kg), weight may vary by configuration
Limited Warranty	**1-years** - depot repair service / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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US model(s) announced October 1, 2013 or January 14, 2014

(MLM1N-3) January 2014

ThinkCentre M73 Tiny (10AX) - GMP

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10AX002UUS	G3420T	2GBx1	320G 5400	None	Intel HD	Intel 105	None	None	Stand	None	G P	Win7 Pro64	10/01/13
10AX002VUS	i3-4130T	4GBx1	500G 5400	None	HD 4400	Intel 2230	None	None	Stand	None	G P	Win7 Pro64 (DG)	10/01/13
10AX003DUS	i5-4570T	4GBx1	128G SSD	DVD±RW	HD 4600	Intel 2230	USB	Switch	None	Mount	G P	Win7 Pro64 (DG)	10/01/13
10AX0044US	i5-4570T	4GBx1	500G 7200	None	HD 4600	Intel 2230	None	None	Stand	None	G P	Win7 Pro64 (DG)	10/22/13
10AX0045US	i3-4130T	4GBx1	500G 7200	None	HD 4400	Intel 105	None	None	Stand	None	G P	Win7 Pro64 (DG)	10/22/13
10AX007WUS	i5-4590T	4GBx1	128G SSD	DVD±RW	HD 4600	7260 b/g/n	USB	Switch	None	Mount	G P	Win7 P64 DG Win8.1	07/08/14
10AX007XUS	i3-4150T	4GBx1	500G 5400	None	HD 4400	7260 b/g/n	None	None	Stand	None	G P	Win7 P64 DG Win8.1	07/08/14

●*Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G3420T Processor** (**2 cores / 2 threads**, 2.7GHz, 3MB cache), Intel HD Graphics, 1600MHz DDR3 memory controller **Intel Core™ i3-4130T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i3-4150T Processor** (**2 cores / 4 threads**, 3.0GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570T Processor** (**2 cores / 4 threads**, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4590T Processor** (**4 cores / 4 threads**, 2.0GHz, 4MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* SATA 3.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional System floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Mechanical	● Tiny (1L), business black color; metal case ● *M73 Tiny only:* 7.0" W X 7.2" D X 1.4" H; 179mm W X 182mm D X 34.5mm H; 2.9 lb (1.3 kg), weight may vary by configuration ● *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H; 184mm W X 182mm D X 65mm H; 5.1lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M73 Tiny (10DM) - GMP

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10DM000MUS	i5-4570T	4GBx1	128G SSD	None	HD 4600	7260 b/g/n	None	Switch	None	None	G P	Win7 P64 DG Win8.1	10/17/14
10DM000NUS	G3420T	2GBx1	320G 5400	None	Intel HD	8723BE	None	None	None	None	G P	Win7 Pro64	10/17/14
10DM000PUS	i3-4130T	4GBx1	500G 5400	None	HD 4400	7260 b/g/n	None	None	None	None	G P	Win7 P64 DG Win8.1	10/17/14
10DM000QUS	G3420T	2GBx1	320G 7200	None	Intel HD	8723BE	None	None	None	None	G P	Win7 Pro64	10/17/14
10DM000RUS	i3-4130T	4GBx1	500G 7200	None	HD 4400	7260 b/g/n	None	None	None	None	G P	Win7 P64 DG Win8.1	10/17/14

●*Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G3420T Processor** (**2 cores / 2 threads**, 2.7GHz, 3MB cache), Intel HD Graphics, 1600MHz DDR3 memory controller **Intel Core™ i3-4130T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i3-4150T Processor** (**2 cores / 4 threads**, 3.0GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570T Processor** (**2 cores / 4 threads**, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4590T Processor** (**4 cores / 4 threads**, 2.0GHz, 4MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* SATA 3.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT 4.0 combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi/BT 4.0, 1x1
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional System floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	None
Mechanical	• Tiny (1L), business black color; metal case • *M73 Tiny only:* 7.0" W X 7.2" D X 1.4" H; 179mm W X 182mm D X 34.5mm H; 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H; 184mm W X 182mm D X 65mm H; 5.1lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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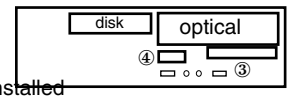
(MLM1N-10) October 2014

ThinkCentre M73 Small (10B7)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	Floor stand	ENERGY STAR 6.0	Global	Preload	Ann date *(mm/dd/yy)*
10B7000SUS	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	Stand	None	None	Win7 P64 DG Win8	10/01/13
10B7000TUS	3x4	i7-4770	8GBx1	500G Hybrid	DVD±RW	N2230	None	GT 620	None	None	Stand	None	None	Win7 P64 DG Win8	10/01/13
10B7001RUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	Stand	None	None	Win7 P64 DG Win8	10/01/13
10B7001TUS	3x4	i3-4130	4GBx1	500G Hybrid	DVD±RW	None	None	HD 4400	None	None	Stand	None	None	Win7 P64 DG Win8	10/01/13
10B7001UUS	3x4	i3-4130	4GBx1	1TB 7200	DVD±RW	None	None	HD 4400	None	Serial	Stand	None	None	Win7 P64 DG Win8	10/01/13
10B7001VUS	3x4	G3220	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	Serial	Stand	None	None	Win7 P64 DG Win8	10/01/13
10B7001WUS	3x4	G3220	4GBx1	500G Hybrid	DVD±RW	None	None	Intel HD	None	Serial	Stand	None	None	Win7 P64 DG Win8	10/01/13
10B7001XUS	3x4	G3220	4GBx1	1TB 7200	DVD±RW	None	None	Intel HD	None	Serial	Stand	None	None	Win7 P64 DG Win8	10/01/13
10B7004XUS	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	None	None	Stand	None	None	Win7 P64 DG Win8.1	02/04/14

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	*Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	*Some:* 240 watts, autosensing, active PFC
Machine	• Business black color; metal case • 13.2" W X 15.0" D X 3.9" H • 335mm W X 382mm D X 101mm H • 14.6 lb (6.6 kg) in maximum configuration • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 2.5", N/A, no access, opt 2nd SSD* Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: Low Profile, PCIe 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced October 1, 2013 or February 4, 2014

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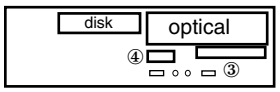
ThinkCentre M73 Small (10B4) - ES 6.0

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	Floor stand	ENERGY STAR 6.0	Global	Preload	Ann date *(mm/dd/yy)*
10B4000XUS	3x4	i7-4770	8GBx1	500G Hybrid	DVD±RW	N2230	None	GT 620	None	S P	Stand	ES6.0	None	Win7 Pro64 (DG)	10/01/13

●*3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Core™ i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
Disk	*Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	*Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	*Some:* 240 watts, autosensing, active PFC, 85% PSU
Machine	● Business black color; metal case ● 13.2" W X 15.0" D X 3.9" H ● 335mm W X 382mm D X 101mm H ● 14.6 lb (6.6 kg) in maximum configuration ● Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 2.5", N/A, no access, opt 2nd SSD* Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: Low Profile, PCIe 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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US model(s) announced October 1, 2013

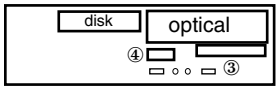
(MLM1S-4) October 2013

ThinkCentre M73 Small (10B4) - ES 6.0 (GMP)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	Floor stand	ENERGY STAR 6.0	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10B4001FUS	3x4	G3420	2GBx1	500G 7200	DVD	None	None	Intel HD	None	None	None	ES6.0	G P	Win7 Pro64	10/01/13
10B4001GUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	Stand	ES6.0	G P	Win7 Pro64 (DG)	10/01/13
10B4001HUS	3x4	i5-4570	4GBx1	1TB 7200	DVD±RW	N105	Media	HD 8470	Switch	None	None	ES6.0	G P	Win7 Pro64 (DG)	10/01/13
10B40020US	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	Stand	ES6.0	G P	Win7 HP64	02/04/14
10B4002LUS	3x4	G3440	2GBx1	500G 7200	DVD	None	None	Intel HD	None	None	None	ES6.0	G P	Win7 Pro64	06/24/14
10B4002MUS	3x4	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	Stand	ES6.0	G P	Win7 P64 DG Win8.1	07/08/14
10B4002NUS	3x4	i5-4590	4GBx1	1TB 7200	DVD±RW	8723BE	None	GT 620	Switch	None	None	ES6.0	G P	Win7 P64 DG Win8.1	07/08/14

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G3420 Processor** (**2 cores / 2 threads**, 3.2GHz, 3MB cache), Intel HD Graphics, 1600MHz DDR3 memory controller **Intel® Pentium G3440 Processor** (**2 cores / 2 threads**, 3.3GHz, 3MB cache), Intel HD Graphics, 1600MHz DDR3 memory controller **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel® Core™ i3-4150 Processor** (**2 cores / 4 threads**, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4590 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 8470**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	*Some:* DVD-ROM DL SATA 1.5Gb/s Drive *Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi/BT 4.0, 1x1
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	*Some:* 240 watts, autosensing, active PFC, 85% PSU
Machine	• Business black color; metal case • 13.2" W X 15.0" D X 3.9" H • 335mm W X 382mm D X 101mm H • 14.6 lb (6.6 kg) in maximum configuration • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 2.5", N/A, no access, opt 2nd SSD* Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: Low Profile, PCIe 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Home Premium 64
Some: Windows 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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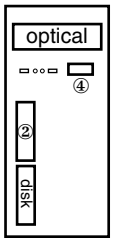
ThinkCentre M73 Mini Tower (10B3)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	ENERGY STAR 6.0	Global	Preload	Ann date *(mm/dd/yy)*
10B3000CUS	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG Win8	10/01/13
10B3000DUS	3x4	i7-4770	8GBx1	500G Hybrid	DVD±RW	None	None	GT 620	None	None	None	None	Win7 P64 DG Win8	10/01/13
10B3000RUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	None	None	Win7 P64 DG Win8	10/01/13
10B3000SUS	3x4	i3-4130	4GBx1	500G Hybrid	DVD±RW	None	None	HD 4400	None	Serial	None	None	Win7 P64 DG Win8	10/01/13
10B3000TUS	3x4	i3-4130	4GBx1	1TB 7200	DVD±RW	None	None	HD 4400	None	Serial	None	None	Win7 P64 DG Win8	10/01/13
10B3000VUS	3x4	G3220	4GBx1	1TB 7200	DVD±RW	None	None	Intel HD	None	Serial	None	None	Win7 P64 DG Win8	10/01/13
10B3000WUS	3x4	G3220	4GBx1	500G Hybrid	DVD±RW	None	None	Intel HD	None	None	None	None	Win7 P64 DG Win8	10/01/13
10B3000XUS	3x4	G3220	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	None	None	Win7 P64 DG Win8	10/01/13
10B3002BUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	None	None	None	None	Win7 P64 DG Win8.1	02/04/14
10B3002CUS	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	None	None	None	None	Win7 P64 DG Win8.1	02/04/14

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	*Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	None
Bluetooth	None
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	*Some:* 280 watts, autosensing, active PFC
Mechanical	• Business black color; metal case • 6.3" W X 16.6" D X 15.3" H (with handle) • 160mm W X 422mm D X 388mm H • 20.7 lb (9.4 kg) in maximum configuration • Handle on top front • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk* Bay 3: 3.5", 1" high, no access, std disk Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: half-length, full-height, PCIe 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced October 1, 2013 or February 4, 2014

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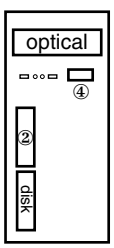
ThinkCentre M73 Mini Tower (10B1) - ES 6.0 (GMP)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	ENERGY STAR 6.0	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10B10011US	3x4	G3420	2GBx1	500G 7200	DVD	None	None	Intel HD	None	None	ES6.0	G P	Win7 Pro64	10/01/13
10B10012US	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	ES6.0	G P	Win7 Pro64 (DG)	10/01/13
10B10017US	3x4	i5-4570	4GBx1	1TB 7200	DVD±RW	N105	Media	HD 8470	Switch	None	ES6.0	G P	Win7 Pro64 (DG)	10/01/13
10B1001KUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	ES6.0	G P	Win7 Pro64	02/04/14
10B10029US	3x4	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	ES6.0	G P	Win7 P64 DG Win8.1	07/08/14
10B1002AUS	3x4	i5-4590	4GBx1	1TB 7200	DVD±RW	8723BE	None	GT 620	Switch	None	ES6.0	G P	Win7 P64 DG Win8.1	07/08/14

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G3420 Processor** (**2 cores / 2 threads**, 3.2GHz, 3MB cache), Intel HD Graphics, 1600MHz DDR3 memory controller **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i3-4150 Processor** (**2 cores / 4 threads**, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4590 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 8470**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	*Some:* DVD-ROM DL SATA 1.5Gb/s Drive *Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi/BT 4.0, 1x1
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	*Some:* 280 watts, autosensing, active PFC, 85% PSU
Mechanical	• Business black color; metal case • 6.3" W X 16.6" D X 15.3" H (with handle) • 160mm W X 422mm D X 388mm H • 20.7 lb (9.4 kg) in maximum configuration • Handle on top front • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk* Bay 3: 3.5", 1" high, no access, std disk Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: half-length, full-height, PCIe 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M73z with Frame Stand
and optional wireless keyboard and mouse

ThinkCentre M73z with Monitor Stand
and optional wireless keyboard and mouse

ThinkCentre M73z with Frame Stand
with optional PS/2 and Serial ports

ThinkCentre M73z with Monitor Stand
with optional PS/2 and Serial ports

ThinkCentre M73z with Frame Stand
with optional wireless keyboard and mouse

ThinkCentre M73z with Monitor Stand
with optional wireless keyboard and mouse

ThinkCentre M73z (10BC) - TopSeller (1-year Onsite)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial & PS/2 port	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
10BC0005US	i5-4430S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N105	None	None	None	Frame	USB	None	Win7 Pro64 DG	09/24/13
10BC000HUS	G3220	2GBx1 1600MHz	720p	500G 7200	Intel HD	N105	None	None	None	Frame	USB	None	Win7 Pro64 DG	09/24/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **1600MHz DDR3L**, two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; *Maximum resolution:* 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio
Multi-touch	None
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off
Controls	Side buttons for brightness up, brightness down, and power on/off
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Ethernet	One gigabit ethernet port, Intel I217-V
Audio	High Definition (HD) Audio, Realtek ALC269VC
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Mechanical	• Business black color • Carry handle in rear • Support VESA mount (100mm) *With Frame stand:* 19.9" W X 3.56" D X 15.9" H 506mm W X 90.5mm D X 404.75mm H 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 35°) *With Monitor stand:* 19.9" W X 9.83" D X 16.7" H 506mm W X 249.8mm D X 423.9mm H 19.5 lb (8.84 kg) in maximum configuration Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°;
Limited Warranty	**1-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant
EuP 2013 Certified

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced September 24, 2012

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ThinkCentre M73z (10BC) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial & PS/2 port	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
10BC0001US	i7-4770S	8GBx1 1600MHz	720p	500G Hybrid	HD 4600	N2230	Media	None	S P	Monitor	2.4G	None	Win7 Pro64 DG	09/24/13
10BC0002US	i7-4770S	4GBx1 1600MHz	720p	1TB 7200	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC0003US	i5-4430S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N2230	Media	None	None	Frame	USB	None	Win7 Pro64 DG	09/24/13
10BC0004US	i5-4570S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC0006US	i5-4570S	4GBx1 1600MHz	720p	500G Hybrid	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC0007US	i5-4570S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N2230	None	None	None	Frame	USB	None	Win7 Pro64 DG	09/24/13
10BC0008US	i5-4570S	4GBx1 1600MHz	720p	180G SSD	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC0009US	i5-4570S	4GBx1 1600MHz	720p	128G SSD	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **1600MHz DDR3L**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; *Maximum resolution:* 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio
Multi-touch	None
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off
Controls	Side buttons for brightness up, brightness down, and power on/off
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V
Audio	High Definition (HD) Audio, Realtek ALC269VC
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), Lenovo® logo *Some:* Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
Mouse	*Some:* Enhanced Optical USB Mouse, Lenovo logo *Some:* Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Power supply	150 watts, autosensing, 85% PSU
Mechanical	• Business black color • Carry handle in rear • Support VESA mount (100mm) *With Frame stand:* 19.9" W X 3.56" D X 15.9" H 506mm W X 90.5mm D X 404.75mm H 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 35°) *With Monitor stand:* 19.9" W X 9.83" D X 16.7" H 506mm W X 249.8mm D X 423.9mm H 19.5 lb (8.84 kg) in maximum configuration Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°;
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant
EuP 2013 Certified

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced September 24, 2012

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ThinkCentre M73z (10BC) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial & PS/2 port	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
10BC000BUS	i5-4670S	8GBx1	720p	1TB 7200	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC000CUS	i7-4770S	8GBx1	720p	1TB 7200	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC000DUS	i3-4130	4GBx1	720p	500G 7200	HD 4400	N2230	None	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC000EUS	i3-4130	4GBx1	720p	500G 7200	HD 4400	N2230	None	None	None	Frame	USB	None	Win7 Pro64 DG	09/24/13
10BC000FUS	i3-4130	4GBx1	720p	500G Hybrid	HD 4400	N2230	None	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC000GUS	G3220	2GBx1	720p	500G 7200	Intel HD	N2230	None	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC000QUS	i5-4570S	4GBx1	720p	500G 7200	HD 4600	N2230	Media	None	None	None	USB	None	Win7 Pro64 DG	11/12/13
10BC000YUS	G3220	2GBx1	720p	500G 7200	Intel HD	N7260	None	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	01/21/14
10BC0010US	i3-4130	4GBx1	720p	500G 7200	HD 4400	N7260	None	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	01/21/14
10BC0011US	i5-4570S	4GBx1	720p	500G 7200	HD 4400	N7260	None	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	01/21/14
10BC0014US	G1820	2GBx1	720p	500G 7200	Intel HD	N7260	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	03/04/14

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Celeron® G1820 Processor** (**2 cores / 2 threads**, 2.7GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670S Processor** (**4 cores / 4 threads**, 3.1GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **1600MHz DDR3L**, two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; *Maximum resolution:* 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio
Multi-touch	None
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off
Controls	Side buttons for brightness up, brightness down, and power on/off
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V
Audio	High Definition (HD) Audio, Realtek ALC269VC
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Mechanical	• Business black color • Carry handle in rear • Support VESA mount (100mm) *With Frame stand:* 19.9" W X 3.56" D X 15.9" H 506mm W X 90.5mm D X 404.75mm H 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 35°) *With Monitor stand:* 19.9" W X 9.83" D X 16.7" H 506mm W X 249.8mm D X 423.9mm H 19.5 lb (8.84 kg) in maximum configuration Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°;
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant
EuP 2013 Certified

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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US model(s) announced September 24 or November 12, 2013 or January 21 or March 4, 2014
(MDST1-2) March 2014

ThinkCentre M73z (10BC) - TopSeller - III

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial & PS/2 port	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
10BC001DUS	i3-4150	8GBx1	720p	256G SSD	HD 4400	7260 b/g/n	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001WUS	i7-4790S	4GBx1	720p	180G SSD	HD 4600	7260 b/g/n	Media	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001RUS	i5-4590S	4GBx1	720p	500G 7200	HD 4600	7260 ac	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001EUS	i3-4150	4GBx1	720p	1TB 7200	HD 4400	7260 b/g/n	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001GUS	i3-4150	4GBx1	720p	500G 7200	HD 4400	7260 b/g/n	None	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001NUS	i5-4590S	8GBx1	720p	256G SSD	HD 4600	7260 b/g/n	None	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001SUS	i7-4790S	4GBx1	720p	500G 7200	HD 4600	7260 b/g/n	Media	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001JUS	i5-4590S	4GBx1	720p	500G 7200	HD 4600	7260 b/g/n	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001VUS	i7-4790S	4GBx1	720p	180G SSD	HD 4600	7260 b/g/n	Media	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001UUS	i7-4790S	8GBx1	720p	256G SSD	HD 4600	7260 b/g/n	Media	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001HUS	i3-4150	4GBx1	720p	180G SSD	HD 4400	7260 b/g/n	None	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001TUS	i7-4790S	8GBx1	720p	1TB 7200	HD 4600	7260 b/g/n	Media	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001CUS	i3-4150	4GBx1	720p	180G SSD	HD 4400	7260 b/g/n	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001MUS	i5-4590S	4GBx1	720p	180G SSD	HD 4600	7260 b/g/n	None	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001LUS	i5-4590S	4GBx1	720p	180G SSD	HD 4600	7260 b/g/n	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001FUS	i3-4150	4GBx1	720p	500G 7200	HD 4400	7260 ac	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001BUS	i3-4150	4GBx1	720p	500G 7200	HD 4400	7260 b/g/n	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001KUS	i5-4590S	4GBx1	720p	1TB 7200	HD 4600	7260 b/g/n	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001YUS	i5-4590S	4GBx1	None	500G 7200	HD 4600	None	Media	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	02/03/15

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-4150 Processor** (**2 cores / 4 threads**, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4590S Processor** (**4 cores / 4 threads**, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4790S Processor** (**4 cores / 8 threads**, 3.2GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **1600MHz DDR3L**, two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; *Max resolution:* 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio
Multi-touch	None
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off
Controls	Side buttons for brightness up, brightness down, and power on/off
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V
Audio	High Definition (HD) Audio, Realtek ALC269VC
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Mechanical	• Business black color • Carry handle in rear • Support VESA mount (100mm) *With Frame stand:* (WxDxH)19.9" X 3.56" X 15.9"; 506mm X 90.5mm X 404.75mm 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 35°) *With Monitor stand:* (WxDxH)19.9" X 9.83" X 16.7"; 506mm X 249.8mm X 423.9mm 19.5 lb (8.84 kg) in maximum configuration Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8/8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant
EuP 2013 Certified

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M73z (10BC) - TopSeller - IV

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial & PS/2 port	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
10BC002CUS	G3240	2GBx1	720p	500G 7200	Intel HD	7260 b/g/n	Media	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	03/24/15
10BC002EUS	i5-4590S	4GBx1	720p	500G 7200	HD 4600	7260 b/g/n	Media	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	03/24/15
10BC002DUS	i3-4150	4GBx1	720p	500G 7200	HD 4400	7260 b/g/n	Media	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	03/24/15

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Pentium® G3240 Processor** (**2 cores / 2 threads**, 3.1GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4150 Processor** (**2 cores / 4 threads**, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4590S Processor** (**4 cores / 4 threads**, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4790S Processor** (**4 cores / 8 threads**, 3.2GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **1600MHz DDR3L**, two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; *Max resolution:* 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio
Multi-touch	None
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off
Controls	Side buttons for brightness up, brightness down, and power on/off
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V
Audio	High Definition (HD) Audio, Realtek ALC269VC
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Mechanical	• Business black color • Carry handle in rear • Support VESA mount (100mm) *With Frame stand:* (WxDxH)19.9" X 3.56" X 15.9"; 506mm X 90.5mm X 404.75mm 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 35°) *With Monitor stand:* (WxDxH)19.9" X 9.83" X 16.7"; 506mm X 249.8mm X 423.9mm 19.5 lb (8.84 kg) in maximum configuration Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8/8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant
EuP 2013 Certified

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M73z (10BC) - TopSeller (Win8)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial & PS/2 port	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
10BC000AUS	i5-4570S	4GBx1 1600MHz	720p	500GB 7200	HD 4600	N2230	Media	None	None	Frame	USB	None	Win8 Pro64	09/24/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **1600MHz DDR3L**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; *Maximum resolution:* 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio
Multi-touch	None
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off
Controls	Side buttons for brightness up, brightness down, and power on/off
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V
Audio	High Definition (HD) Audio, Realtek ALC269VC
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Mechanical	• Business black color • Carry handle in rear • Support VESA mount (100mm) *With Frame stand:* 19.9" W X 3.56" D X 15.9" H 506mm W X 90.5mm D X 404.75mm H 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 35°) *With Monitor stand:* 19.9" W X 9.83" D X 16.7" H 506mm W X 249.8mm D X 423.9mm H 19.5 lb (8.84 kg) in maximum configuration Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°;
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 8 Pro 64-bit

Web install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage System Update
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Intel AppUp
- Nitro Pro
- AccuWeather
- Norton™ Studio

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant
EuP 2013 Certified

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced September 24, 2012

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ThinkCentre M73z (10BB)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial & PS/2 port	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
10BB0000US	i7-4770S	8GBx1 1600MHz	720p	1TB Hybrid	HD 4600	N2230	Media	None	S P	Monitor	USB	None	Win7 Pro64	09/24/13
10BB000FUS	i5-4570S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BB000GUS	i7-4770S	8GBx1 1600MHz	720p	500G Hybrid	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BB000HUS	i5-4430S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N105	None	None	None	Frame	USB	None	Win7 Pro64 DG	09/24/13
10BB000JUS	i5-4570S	4GBx1 1600MHz	720p	500G Hybrid	HD 4600	N2230	Media	None	S P	Monitor	2.4G	None	Win7 Pro64 DG	09/24/13
10BB001EUS	i7-4770S	8GBx1 1600MHz	720p	1TB 7200	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BB001FUS	i5-4570S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N105	None	None	None	Frame	USB	None	Win7 Pro64 DG	09/24/13
10BB0021US	i3-4130	4GBx1 1600MHz	720p	500G 7200	HD 4400	N2230	None	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BB0022US	G3220	2GBx1 1600MHz	720p	500G 7200	Intel HD	N105	None	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BB0023US	i3-4130	4GBx1 1600MHz	720p	500G Hybrid	HD 4400	N2230	None	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **1600MHz DDR3L**, two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; *Maximum resolution:* 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio
Multi-touch	None
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off
Controls	Side buttons for brightness up, brightness down, and power on/off
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V
Audio	High Definition (HD) Audio, Realtek ALC269VC
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), Lenovo® logo *Some:* Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
Mouse	*Some:* Enhanced Optical USB Mouse, Lenovo logo *Some:* Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Power supply	150 watts, autosensing, 85% PSU
Mechanical	• Business black color • Carry handle in rear • Support VESA mount (100mm) *With Frame stand:* 19.9" W X 3.56" D X 15.9" H 506mm W X 90.5mm D X 404.75mm H 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 35°) *With Monitor stand:* 19.9" W X 9.83" D X 16.7" H 506mm W X 249.8mm D X 423.9mm H 19.5 lb (8.84 kg) in maximum configuration Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°;
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Some: Windows 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant
EuP 2013 Certified

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced September 24, 2012

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ThinkCentre M73z (10BB) - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial & PS/2 port	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/yy)*
10BB0053US	i7-4790S	4GBx2 1600MHz	720p	1TB 7200	HD 4600	N7260	Media	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	11/14
10BBA0JJUS	i3-4150	4GBx1 1600MHz	720p	500G 7200	HD 4400	N7260	Media	None	None	Frame	USB	None	Win7 P64 DG Win8.1	11/14
10BB0052US	i5-4590S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N7260	Media	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	11/14

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-4150 Processor** (**2 cores / 4 threads**, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4590S Processor** (**4 cores / 4 threads**, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4790S Processor** (**4 cores / 8 threads**, 3.2GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **1600MHz DDR3L**, two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; *Maximum resolution:* 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio
Multi-touch	None
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off
Controls	Side buttons for brightness up, brightness down, and power on/off
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V
Audio	High Definition (HD) Audio, Realtek ALC269VC
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), Lenovo® logo *Some:* Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
Mouse	*Some:* Enhanced Optical USB Mouse, Lenovo logo *Some:* Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Power supply	150 watts, autosensing, 85% PSU
Mechanical	• Business black color • Carry handle in rear • Support VESA mount (100mm) *With Frame stand:* 19.9" W X 3.56" D X 15.9" H 506mm W X 90.5mm D X 404.75mm H 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 35°) *With Monitor stand:* 19.9" W X 9.83" D X 16.7" H 506mm W X 249.8mm D X 423.9mm H 19.5 lb (8.84 kg) in maximum configuration Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°;
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Some: Windows 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8/8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant
EuP 2013 Certified

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M73z (10BB) - GMP

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial & PS/2 port	Stand type	Key-board/ Mouse	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10BB000EUS	i5-4570S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N2230	Media	Switch	None	Monitor	USB	G P	Win7 Pro64 DG	09/24/13
10BB001DUS	i5-4570S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N2230	Media	Switch	None	Frame	USB	G P	Win7 Pro64	09/24/13
10BB002VUS	i3-4130	4GBx1 1600MHz	720p	500G 7200	HD 4400	N2230	Media	Switch	None	Monitor	USB	G P	Win7 Pro64 DG	09/24/13
10BB004QUS	i5-4590S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N2230	Media	Switch	None	Frame	USB	G P	Win7 Pro64	06/24/14
10BB004TUS	i5-4590S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N7260	Media	Switch	None	Frame	USB	G P	Win7 Pro64	06/24/14

●●*Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4590S Processor** (**4 cores / 4 threads**, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **1600MHz DDR3L**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; *Maximum resolution:* 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio
Multi-touch	None
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off
Controls	Side buttons for brightness up, brightness down, and power on/off
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V
Audio	High Definition (HD) Audio, Realtek ALC269VC
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Mechanical	● Business black color ● Carry handle in rear ● Support VESA mount (100mm) *With Frame stand:* 19.9" W X 3.56" D X 15.9" H 506mm W X 90.5mm D X 404.75mm H 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 35°) *With Monitor stand:* 19.9" W X 9.83" D X 16.7" H 506mm W X 249.8mm D X 423.9mm H 19.5 lb (8.84 kg) in maximum configuration Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°;
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Some: Windows 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant
EuP 2013 Certified

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M73z (10BB) - GMP (Win8/8.1)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial & PS/2 port	Stand type	Key-board/ Mouse	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10BB001CUS	i5-4570S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N2230	Media	Switch	None	Frame	USB	G P	Win8 Pro64	09/24/13
10BB003VUS	i5-4570S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N7260	Media	Switch	None	Frame	USB	G P	Win8.1 Pro64	02/25/14
10BB004PUS	i5-4590S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N7260	Media	Switch	None	Frame	USB	G P	Win8.1 Pro64	06/24/14

●●*Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4590S Processor** (**4 cores / 4 threads**, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **1600MHz DDR3L**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; *Maximum resolution:* 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio
Multi-touch	None
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off
Controls	Side buttons for brightness up, brightness down, and power on/off
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V
Audio	High Definition (HD) Audio, Realtek ALC269VC
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Mechanical	● Business black color ● Carry handle in rear ● Support VESA mount (100mm) *With Frame stand:* 19.9" W X 3.56" D X 15.9" H 506mm W X 90.5mm D X 404.75mm H 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 35°) *With Monitor stand:* 19.9" W X 9.83" D X 16.7" H 506mm W X 249.8mm D X 423.9mm H 19.5 lb (8.84 kg) in maximum configuration Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°;
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 8 Pro 64-bit
Some: Windows 8.1 Pro 64-bit

Web install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage System Update
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility (for WIndows 8 only)
- Lenovo Cloud Storage by SugarSync (for WIndows 8 only)
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Intel AppUp
- Nitro Pro
- AccuWeather
- Norton™ Studio
- Pokki (for WIndows 8.1 only)
- Hightail (for WIndows 8.1 only)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant
EuP 2013 Certified

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M78 Small and Tower

Lenovo ThinkCentre M78
Small and Tower

Lenovo ThinkCentre M78 Tower
with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M78 Small

Lenovo ThinkCentre M78 Small
with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M78 Tower

Lenovo ThinkCentre M78 Tower

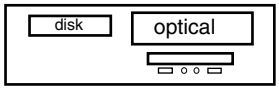
ThinkCentre M78 Small (10BU) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	PS/2 port	Floor stand	DP to DP Cable	Global	Preload	Ann date *(mm/dd/yy)*
10BU0000US	4x3	A4-5300	2GBx1	250G 7200	DVD±RW	None	None	HD 7480D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10BU0001US	4x3	A6-5400B	4GBx1	500G 7200	DVD±RW	None	None	HD 7540D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10BU0002US	4x3	A4-6300B	4GBx1	500G 7200	DVD±RW	None	None	HD 8370D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10BU0003US	4x3	A6-6400B	4GBx1	500G 7200	DVD±RW	None	None	HD 8470D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10BU0004US	4x3	A8-6500B	4GBx1	500G 7200	DVD±RW	None	None	HD 8570D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10BU0005US	4x3	A8-6500B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Stand	Cable	None	Win7 Pro64 (DG)	10/01/13
10BU0006US	4x3	A6-6400B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Stand	Cable	None	Win7 Pro64 (DG)	10/01/13
10BU0007US	4x3	A4-6300B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Stand	Cable	None	Win7 Pro64 (DG)	10/01/13
10BU0008US	4x3	A4-6300B	2GBx1	500G 7200	DVD±RW	None	None	HD 8370D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/22/13
10BU0009US	4x3	A6-6400B	2GBx1	500G 7200	DVD±RW	None	None	HD 8470D	None	None	None	None	None	Win7 Pro64 (DG)	12/10/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**AMD APU A4-5300** (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon™ HD 7480D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A4-6300B** (dual-core, 3.7GHz, 1MB L2 cache), Turbo Core (up to 3.9GHz), AMD Radeon HD 8370D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A6-5400B** (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core (up to 3.8GHz), AMD Radeon HD 7540D Graphics, DDR3 memory controller (up to 1866MHz) **AMD APU A6-6400B** (dual-core, 3.9GHz, 1MB L2 cache), Turbo Core (up to 4.1GHz), AMD Radeon HD 8470D Graphics, DDR3 memory controller (up to 1866MHz) **AMD APU A8-6500B** (quad-core, 3.5GHz, 4MB L2 cache),Turbo Core (up to 4.1GHz), AMD Radeon HD 8570D Graphics, DDR3 memory controller (up to 1866MHz)
Implementation	Processor in Socket FM2
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**AMD Radeon HD Graphics**, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; *Maximum resolution:* 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz *Some:* **AMD Radeon™ HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz
DP cable	*Some:* DisplayPort to DisplayPort monitor cable
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**AMD A75 Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
PCIe WLAN	None
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional System floor stand for vertical orientation
Power supply	240 watts, autosensing
Machine	• Business black color; metal case • 13.3" W X 15.0" D X 3.9" H • 339mm W X 381mm D X 100mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk and optical drive removal • Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced October 1, 2013, October 22, 2013, or December 10, 2013

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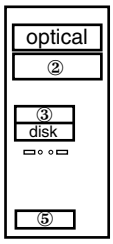
ThinkCentre M78 Tower (10BR) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis intrusion switch	PS/2 port	DP to DP Cable	Global	Preload	Ann date *(mm/dd/yy)*
10BR0000US	4x5	A4-5300	2GBx1	250G 7200	DVD±RW	None	None	HD 7480D	None	None	None	None	Win7 P64 DG Win8	10/01/13
10BR0001US	4x5	A6-5400B	4GBx1	500G 7200	DVD±RW	None	None	HD 7540D	None	None	None	None	Win7 P64 DG Win8	10/01/13
10BR0002US	4x5	A4-6300B	2GBx1	500G 7200	DVD±RW	None	None	HD 8370D	None	None	None	None	Win7 P64 DG Win8	10/01/13
10BR0004US	4x5	A6-6400B	4GBx1	500G 7200	DVD±RW	None	None	HD 8470D	None	None	None	None	Win7 P64 DG Win8	10/01/13
10BR0005US	4x5	A8-6500B	4GBx1	500G 7200	DVD±RW	None	None	HD 8570D	None	None	None	None	Win7 P64 DG Win8	10/01/13
10BR0006US	4x5	A8-6500B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Cable	None	Win7 P64 DG Win8	10/01/13
10BR0007US	4x5	A6-6400B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Cable	None	Win7 P64 DG Win8	10/01/13
10BR0008US	4x5	A4-6300B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Cable	None	Win7 P64 DG Win8	10/01/13
10BR000AUS	4x5	A4-6300B	4GBx1	500G 7200	DVD±RW	None	None	HD 8370D	None	None	None	None	Win7 P64 DG Win8.1	04/08/14

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**AMD APU A4-5300** (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon™ HD 7480D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A4-6300B** (dual-core, 3.7GHz, 1MB L2 cache), Turbo Core (up to 3.9GHz), AMD Radeon HD 8370D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A6-5400B** (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core (up to 3.8GHz), AMD Radeon HD 7540D Graphics, DDR3 memory controller (up to 1866MHz) **AMD APU A6-6400B** (dual-core, 3.9GHz, 1MB L2 cache), Turbo Core (up to 4.1GHz), AMD Radeon HD 8470D Graphics, DDR3 memory controller (up to 1866MHz) **AMD APU A8-6500B** (quad-core, 3.5GHz, 4MB L2 cache),Turbo Core (up to 4.1GHz), AMD Radeon HD 8570D Graphics, DDR3 memory controller (up to 1866MHz)
Implementation	Processor in Socket FM2
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**AMD Radeon HD Graphics**, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; *Maximum resolution:* 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz *Some:* **AMD Radeon™ HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz
DP cable	*Some:* DisplayPort to DisplayPort monitor cable
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**AMD A75 Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
PCIe WLAN	None
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, manual switch
Machine	• Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 27.5 lb (12.5 kg) in maximum configuration • Toolless cover removal, toolless adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader* Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced October 1, 2013 or April 8, 2014

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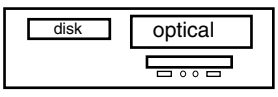
ThinkCentre M78 Small (10BT) - 1-year onsite

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	PS/2 port	2nd Serial	Floor stand	DP to DP Cable	Preload	Ann date *(mm/dd/yy)*
10BT0004US	4x3	A8-5500B	8GBx1	1TB 7200	DVD±RW	None	Media	HD 8570	None	None	Serial	Stand	Cable	Win7 Pro64 (DG)	10/01/13
10BT0005US	4x3	A4-5300	4GBx1	500G 7200	DVD±RW	None	None	HD 7480D	None	None	Serial	Stand	None	Win7 Pro64 (DG)	10/01/13
10BT0006US	4x3	A6-5400B	4GBx1	500G 7200	DVD±RW	N105	Media	HD 7540D	None	None	Serial	Stand	None	Win7 Pro64 (DG)	10/01/13

- *1-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**AMD APU A4-5300** (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon™ HD 7480D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A6-5400B** (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core (up to 3.8GHz), AMD Radeon HD 7540D Graphics, DDR3 memory controller (up to 1866MHz) **AMD APU A8-5500B** (quad-core, 3.2GHz, 4MB L2 cache), Turbo Core (up to 3.7GHz), AMD Radeon HD 7560D Graphics, DDR3 memory controller (up to 1866MHz)
Implementation	Processor in Socket FM2
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**AMD Radeon HD Graphics**, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; *Maximum resolution:* 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz *Some:* **AMD Radeon™ HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz
DP cable	*Some:* DisplayPort to DisplayPort monitor cable
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar
eSATA port	None
Media reader	*Some:* 29-in-1 media reader, internal USB 2.0
Chipset	**AMD A75 Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n wireless, Intel Centrino® Wireless-N 105, 1x1
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing
Machine	• Business black color; metal case • 13.3" W X 15.0" D X 3.9" H • 339mm W X 381mm D X 100mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk and optical drive removal • Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**1-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced October 1, 2013

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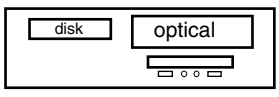
ThinkCentre M78 Small (10BT)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	PS/2 port	Floor stand	DP to DP Cable	Global	Preload	Ann date *(mm/dd/yy)*
10BT0000US	4x3	A4-5300B	4GBx1	500G 7200	DVD±RW	None	None	HD 7480D	Switch	None	Stand	None	None	Win7 Pro64	10/01/13
10BT0008US	4x3	A4-6300B	4GBx1	500G 7200	DVD±RW	None	None	HD 8370D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10BT0009US	4x3	A6-6400B	4GBx1	500G 7200	DVD±RW	None	None	HD 8470D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10BT000AUS	4x3	A8-6500B	4GBx1	500G 7200	DVD±RW	None	None	HD 8570D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10BT000BUS	4x3	A6-6400B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Stand	Cable	None	Win7 Pro64 (DG)	10/01/13
10BT000CUS	4x3	A8-6500B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Stand	Cable	None	Win7 Pro64 (DG)	10/01/13

●*3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**AMD APU A4-5300B** (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon™ HD 7480D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A4-6300B** (dual-core, 3.7GHz, 1MB L2 cache), Turbo Core (up to 3.9GHz), AMD Radeon HD 8370D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A6-6400B** (dual-core, 3.9GHz, 1MB L2 cache), Turbo Core (up to 4.1GHz), AMD Radeon HD 8470D Graphics, DDR3 memory controller (up to 1866MHz) **AMD APU A8-6500B** (quad-core, 3.5GHz, 4MB L2 cache),Turbo Core (up to 4.1GHz), AMD Radeon HD 8570D Graphics, DDR3 memory controller (up to 1866MHz)
Implementation	Processor in Socket FM2
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**AMD Radeon HD Graphics**, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; *Maximum resolution:* 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz *Some:* **AMD Radeon™ HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz
DP cable	*Some:* DisplayPort to DisplayPort monitor cable
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**AMD A75 Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
PCIe WLAN	None
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing
Machine	● Business black color; metal case ● 13.3" W X 15.0" D X 3.9" H ● 339mm W X 381mm D X 100mm H ● 16.5 lb (7.5 kg) in maximum configuration ● Toolless cover flips up and tilts backward on rear hinges ● Toolless disk and optical drive removal ● Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced October 1, 2013

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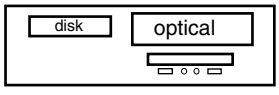
ThinkCentre M78 Small (10BS) - ES 5.2

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	PS/2 port	2nd Serial / Parallel	Floor stand	DP to DP Cable	Preload	Ann date *(mm/dd/yy)*
10BS0002US	4x3	A8-6500B	4GBx1	1TB 7200	DVD±RW	N2230	None	HD 8570	Switch	None	S P	Stand	Cable	Win8 Pro64	10/01/13

- *3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**AMD APU A8-6500B** (quad-core, 3.5GHz, 4MB L2 cache),Turbo Core (up to 4.1GHz), AMD Radeon™ HD 8570D Graphics, DDR3 memory controller (up to 1866MHz)
Implementation	Processor in Socket FM2
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**AMD Radeon HD Graphics**, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; *Maximum resolution:* 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz *Some:* **AMD Radeon™ HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz
DP cable	*Some:* DisplayPort to DisplayPort monitor cable
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**AMD A75 Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n wireless, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	• Business black color; metal case • 13.3" W X 15.0" D X 3.9" H • 339mm W X 381mm D X 100mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk and optical drive removal • Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 8 Pro 64-bit

Ready to install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® System Update
- View Management Utility
- Lenovo® Support
- Lenovo Companion
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Desktop Power Manager
- PC Device Stage
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)
- PC Device Stage
- Evernote®
- Skype™
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro
- AccuWeather
- Norton Studio

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR 5.2-compliant
ULE Gold
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced October 1, 2013

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(ADR1S-4) October 2013

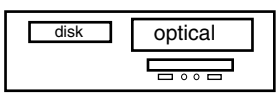
ThinkCentre M78 Small (10BS) - ES 5.2 (GMP)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	PS/2 port	Floor stand	DP to DP Cable	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10BS0005US	4x3	A8-5500B	4GBx1	1TB 7200	DVD±RW	N105	None	HD 8470	Switch	None	Stand	None	G P	Win7 Pro64 (DG)	10/01/13
10BS0006US	4x3	A6-5400B	4GBx1	500G 7200	DVD±RW	None	None	HD 7540D	Switch	None	Stand	None	G P	Win7 Pro64 (DG)	10/01/13
10BS0007US	4x3	A4-5300B	2GBx1	500G 7200	DVD	None	None	HD 7480D	Switch	None	Stand	None	G P	Win7 Pro64	10/01/13

●Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	*Mainstream enterprise stability and manageability*
Processor	**AMD APU A4-5300B** (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon™ HD 7480D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A6-5400B** (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core (up to 3.8GHz), AMD Radeon HD 7540D Graphics, DDR3 memory controller (up to 1866MHz) **AMD APU A8-5500B** (quad-core, 3.2GHz, 4MB L2 cache), Turbo Core (up to 3.7GHz), AMD Radeon HD 7560D Graphics, DDR3 memory controller (up to 1866MHz)
Implementation	Processor in Socket FM2
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**AMD Radeon HD Graphics**, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; *Maximum resolution:* 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz *Some:* **AMD Radeon™ HD 8470**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
DP cable	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	*Some:* DVD-ROM DL SATA 1.5Gb/s Drive *Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**AMD A75 Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n wireless, Intel Centrino® Wireless-N 105, 1x1
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	● Business black color; metal case ● 13.3" W X 15.0" D X 3.9" H ● 339mm W X 381mm D X 100mm H ● 16.5 lb (7.5 kg) in maximum configuration ● Toolless cover flips up and tilts backward on rear hinges ● Toolless disk and optical drive removal ● Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR 5.2-compliant
ULE Gold
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced October 1, 2013

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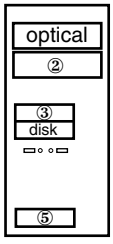
ThinkCentre M78 Tower (10BQ)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis intrusion switch	PS/2 port	DP to DP Cable	Global	Preload	Ann date *(mm/dd/yy)*
10BQ0000US	4x5	A4-5300B	4Gx1+2Gx3	500G Hybrid	DVD±RW	None	None	HD 7480D	Switch	None	None	None	Win7 Pro64	10/01/13
10BQ0004US	4x5	A4-5300	4GBx1	500G 7200	DVD±RW	None	None	HD 7540D	None	None	None	None	Win7 Pro64 (DG)	10/01/13
10BQ0005US	4x5	A6-5400B	4GBx1	500G 7200	DVD±RW	None	None	HD 7540D	None	None	None	None	Win7 Pro64 (DG)	10/01/13
10BQ0006US	4x5	A8-5500B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	None	None	Win7 Pro64 (DG)	10/01/13
10BQ0008US	4x5	A4-6300B	4GBx1	500G 7200	DVD±RW	None	None	HD 8370D	None	None	None	None	Win7 Pro64 (DG)	10/01/13
10BQ0009US	4x5	A6-6400B	4GBx1	500G 7200	DVD±RW	None	None	HD 8470D	None	None	None	None	Win7 Pro64 (DG)	10/01/13

●*3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**AMD APU A4-5300** (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon™ HD 7480D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A4-5300B** (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon HD 7480D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A4-6300B** (dual-core, 3.7GHz, 1MB L2 cache), Turbo Core (up to 3.9GHz), AMD Radeon HD 8370D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A6-5400B** (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core (up to 3.8GHz), AMD Radeon HD 7540D Graphics, DDR3 memory controller (up to 1866MHz) **AMD APU A6-6400B** (dual-core, 3.9GHz, 1MB L2 cache), Turbo Core (up to 4.1GHz), AMD Radeon HD 8470D Graphics, DDR3 memory controller (up to 1866MHz) **AMD APU A8-5500B** (quad-core, 3.2GHz, 4MB L2 cache), Turbo Core (up to 3.7GHz), AMD Radeon HD 7560D Graphics, DDR3 memory controller (up to 1866MHz)
Implementation	Processor in Socket FM2
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**AMD Radeon HD Graphics**, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; *Maximum resolution:* 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz *Some:* **AMD Radeon™ HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz
DP cable	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**AMD A75 Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
PCIe WLAN	None
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, manual switch
Machine	● Business black color; metal case ● 6.9" W X 17.4" D X 16.3" H ● 175mm W X 442mm D X 414mm H ● 27.5 lb (12.5 kg) in maximum configuration ● Toolless cover removal, toolless adapter retention ● Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader* Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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US model(s) announced October 1, 2013
(ADR1T-2) October 2013

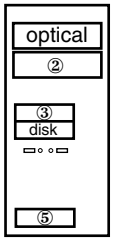
ThinkCentre M78 Tower (10BQ) - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis intrusion switch	PS/2 port	DP to DP Cable	Global	Preload	Ann date *(mm/dd/yy)*
10BQ000AUS	4x5	A8-6500B	4GBx1	500G 7200	DVD±RW	None	None	HD 8570D	None	None	None	None	Win7 Pro64 (DG)	10/01/13
10BQ000BUS	4x5	A8-6500B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Cable	None	Win7 Pro64 (DG)	10/01/13
10BQ000CUS	4x5	A4-6300B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Cable	None	Win7 Pro64 (DG)	10/01/13
10BQ000DUS	4x5	A6-6400B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Cable	None	Win7 Pro64 (DG)	10/01/13

- *3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**AMD APU A4-6300B** (dual-core, 3.7GHz, 1MB L2 cache), Turbo Core (up to 3.9GHz), AMD Radeon™ HD 8370D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A6-6400B** (dual-core, 3.9GHz, 1MB L2 cache), Turbo Core (up to 4.1GHz), AMD Radeon HD 8470D Graphics, DDR3 memory controller (up to 1866MHz) **AMD APU A8-6500B** (quad-core, 3.5GHz, 4MB L2 cache),Turbo Core (up to 4.1GHz), AMD Radeon HD 8570D Graphics, DDR3 memory controller (up to 1866MHz)
Implementation	Processor in Socket FM2
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**AMD Radeon HD Graphics**, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; *Maximum resolution:* 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz *Some:* **AMD Radeon™ HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz
DP cable	*Some:* DisplayPort to DisplayPort monitor cable
Disk	*Some:* SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**AMD A75 Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
PCIe WLAN	None
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, manual switch
Machine	• Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 27.5 lb (12.5 kg) in maximum configuration • Toolless cover removal, toolless adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader* Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced October 1, 2013

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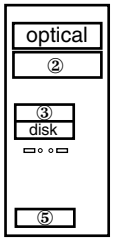
ThinkCentre M78 Tower (10BN) - ES 5.2 (Windows 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis intrusion switch	PS/2 port	2nd Serial / Parallel	DP to DP Cable	DP to DVI Dongle	Preload	Ann date *(mm/dd/yy)*
10BN0001US	4x5	A8-5500B	4Gx1+2Gx3	1TB 7200	DVD±RW	N2230	None	HD 8470	Switch	None	S P	Cable	Dongle	Win8 Pro64	10/01/13

●*3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**AMD APU A8-5500B** (quad-core, 3.2GHz, 4MB L2 cache), Turbo Core (up to 3.7GHz), AMD Radeon™ HD 7560D Graphics, DDR3 memory controller (up to 1866MHz)
Implementation	Processor in Socket FM2
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**AMD Radeon HD Graphics**, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; *Maximum resolution:* 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz *Some:* **AMD Radeon™ HD 8470**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
DP cable	*Some:* DisplayPort to DisplayPort monitor cable
DP dongle	*Some:* DisplayPort to DVI-D cable
Disk	*Some:* SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**AMD A75 Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n wireless, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	● Business black color; metal case ● 6.9" W X 17.4" D X 16.3" H ● 175mm W X 442mm D X 414mm H ● 27.5 lb (12.5 kg) in maximum configuration ● Toolless cover removal, toolless adapter retention ● Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader* Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 8 Pro 64-bit

Ready to install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® System Update
- View Management Utility
- Lenovo® Support
- Lenovo Companion
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Desktop Power Manager
- PC Device Stage
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)
- PC Device Stage
- Evernote®
- Skype™
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro
- AccuWeather
- Norton Studio

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR 5.2-compliant
ULE Gold
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced October 1, 2013

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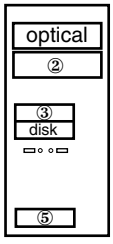
ThinkCentre M78 Tower (10BN) - ES 5.2 (GMP)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis intrusion switch	PS/2 port	DP to DP Cable	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10BN0005US	4x5	A4-5300B	2GBx1	500G 7200	DVD	None	None	HD 7480D	Switch	None	None	G P	Win7 Pro64	10/01/13
10BN0006US	4x5	A8-5500B	4GBx1	1TB 7200	DVD±RW	N105	None	HD 8470	Switch	None	None	G P	Win7 Pro64 (DG)	10/01/13
10BN0007US	4x5	A6-5400B	4GBx1	500G 7200	DVD±RW	None	None	HD 7540D	Switch	None	None	G P	Win7 Pro64 (DG)	10/01/13

●*Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**AMD APU A4-5300B** (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon™ HD 7480D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A6-5400B** (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core (up to 3.8GHz), AMD Radeon HD 7540D Graphics, DDR3 memory controller (up to 1866MHz) **AMD APU A8-5500B** (quad-core, 3.2GHz, 4MB L2 cache), Turbo Core (up to 3.7GHz), AMD Radeon HD 7560D Graphics, DDR3 memory controller (up to 1866MHz)
Implementation	Processor in Socket FM2
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**AMD Radeon HD Graphics**, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; *Maximum resolution:* 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz *Some:* **AMD Radeon™ HD 8470**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
DP cable	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm
Optical	*Some:* DVD-ROM DL SATA 1.5Gb/s Drive *Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**AMD A75 Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n wireless, Intel Centrino® Wireless-N 105, 1x1
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	● Business black color; metal case ● 6.9" W X 17.4" D X 16.3" H ● 175mm W X 442mm D X 414mm H ● 27.5 lb (12.5 kg) in maximum configuration ● Toolless cover removal, toolless adapter retention ● Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader* Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR 5.2-compliant
ULE Gold
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced October 1, 2013

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ThinkCentre M78 Accessories

Memory

2GB PC3-12800 DDR3 UDIMM	0A65728	*ann 06/05/12*
4GB PC3-12800 DDR3 UDIMM	0A65729	*ann 06/05/12*
8GB PC3-12800 DDR3 UDIMM	0A65730	*ann 06/05/12*

More information at
www.lenovo.com/support/desktopmemorycompatibility

Optical

Lenovo® Super Multi-Burner SATA Drive	0A65618	*ann 08/23/11*

Storage and removable storage

500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	*ann 11/06/07*
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	*ann 08/19/08*
USB 2.0 Portable 500GB Hard Disk	45K1690	*ann 05/26/09*
USB 3.0 Secure 500GB Hard Drive	0A65619	*ann 11/29/11*
USB 3.0 Secure 750GB Hard Drive	0A65616	*ann 11/29/11*
USB 3.0 Secure 1TB Hard Drive	0A65621	*ann 08/28/12*
Slim USB Portable DVD Burner	0A33988	*ann 06/14/11*

Graphics

Small 5100/4865/2113/2114 support Low Profile:		
NVIDIA NVS 510 2GB Graphics Card by Lenovo [67]	0B47077	*ann 01/29/13*
Tower 2111/1766/1562/1565 support 75 watts max:		
NVIDIA NVS 510 2GB Graphics Card by Lenovo [67]	0B47077	*ann 01/29/13*

[67] Simultaneously use the graphic card monitor ports along with the systems integrated monitor ports when Multi-Monitor Support is enabled in BIOS Setup.

More information at **www.lenovo.com/support/graphiccards**

Keyboard

Preferred Pro USB Keyboard	73P5220	*ann 06/21/05*
Enhanced Performance USB Keyboard	73P2620	*ann 03/23/04*
Ultraslim Plus Wireless Keyboard and Mouse[52]	0A34032	*ann 04/05/11*
ThinkPad® USB Keyboard with TrackPoint	55Y9003	*ann 08/18/09*
Lenovo USB Fingerprint Keyboard	73P4730	*ann 02/22/05*
Lenovo USB Smartcard Keyboard	51J0155	*ann 03/24/09*

[52] Wireless via 2.4GHz technology using a micro-size USB receiver.

More information at **www.lenovo.com/support/keyboards**

Mouse

Lenovo Optical Mouse (USB)	06P4069	*ann 05/21/03*
Lenovo ScrollPoint® Mouse(USB, Optical)	31P7405	*ann 08/27/02*
ThinkPad Travel Mouse (USB, Optical)	31P7410	*ann 06/04/02*
Lenovo Laser Mouse (USB)	41U3074	*ann 01/23/07*
Lenovo Wireless Laser Mouse[52]	0A36188	*ann 12/20/11*
ThinkPad USB Laser Mouse	57Y4635	*ann 12/15/09*

More information at **www.lenovo.com/support/mice**

Modem

USB 2.0 Lenovo Modem	43R1814	*ann 02/26/08*

Multimedia

ThinkPad In-Ear Headphones with mic[60]	57Y4488	*ann 01/07/10*
Lenovo Mini Speakers M220	55Y2033	*ann 01/07/10*
Lenovo Speakers M0520 (black)	57Y6360	*ann 02/08/11*
Lenovo Speakers M0520 (red)	57Y6361	*ann 02/08/11*
Lenovo Headset P550	55Y2065	
Lenovo Headset P950 (black)	57Y6605	*ann 02/08/11*

[60] Has a 1.2 meter (3.9-foot) cable. Best when systems are in close proximity. Example: SFF placed on a desk.

Security

Kensington® MicroSaver® Cable Lock[56]	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock[56]	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock[56]	57Y4303	*ann 08/24/10*
USB Gemplus GemPC Smart Card Reader	41N3040	*ann 02/21/06*

[56] Attaching to any form factor not only secures the ThinkCentre to the work area, but it also prevents users from opening the chassis itself.

Monitors

ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D)[69]	2448MB6	*ann 09/13/11*
ThinkVision L2251x Wide 22" (VGA, DP)	2578HB6	*ann 10/20/09*
ThinkVision LT2323p Wide 23" (VGA, DP, DVI-D)[69]	3024HC1	*ann 05/01/12*

[69] DisplayPort cable is not included; use optional DisplayPort to DisplayPort Monitor Cable (0A36537).

More information at **www.lenovo.com/support/monitors**

Monitor Accessories[46]

DisplayPort™ to Single-link DVI-D Cable	45J7915	*ann 08/05/08*
DisplayPort to VGA Monitor Cable	57Y4393	*ann 08/04/09*
DisplayPort to DisplayPort Monitor Cable	0A36537	*ann 09/13/11*
Lenovo USB Soundbar	0A36190	*ann 05/01/12*
Kensington MicroSaver Cable Lock[56]	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock[56]	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock[56]	57Y4303	*ann 08/24/10*
ThinkCentre Extend Arm	57Y4352	*ann 07/06/10*

[46] Compatible on selected Lenovo and ThinkVision monitors.

More information at **www.lenovo.com/support/monitoraccessories**

For more information on accessories:

www.lenovo.com/accessories
Purchase Lenovo accessories

www.lenovo.com/support/accessories
Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide
Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com
An Options Compatibility Configurator for Lenovo systems

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ThinkCentre M79
SFF and Tower

ThinkCentre M79 SFF with
optional monitor

ThinkCentre M79 Tower with
optional monitor

ThinkCentre M79 SFF
front and back view

ThinkCentre M79 Tower
front and back view

ThinkCentre M79 SFF
inside view

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ThinkCentre M79 SFF Platform Specifications

Processor

AMD A4, A6, A8, or A10 series APUs

APU	Cores	Frequency (Max/Base)	L2 Cache	Memory Types	Integrated Graphics
A4-6300B	2	3.9 / 3.7	1MB	DDR3-1600	HD 8370D
A6-6400B	2	4.1 / 3.9	1MB	DDR3-1866	HD 8470D
A8-6500B	4	4.1 / 3.5	4MB	DDR3-1866	HD 8570D
A6 PRO-7400B	2	3.9 / 3.5	1MB	DDR3-1866	Radeon R5 Series
A8 PRO-7600B	4	3.8 / 3.1	4MB	DDR3-2133	Radeon R7 Series

Memory

32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

Disk

Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

SATA 6.0Gb/s controller, three connectors on planar, RAID 0/1 support (only applicable on dual SSD models)

Media reader

Optional 7-in-1 single slot media card reader

Graphics

AMD Radeon™ Graphics in processor, uses main memory, one VGA, one DisplayPort™, one optional DP, supports up to three independent displays, works along with optional discrete graphics to support up to five independent displays;
Maximum resolution: 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz
Some: **AMD Radeon HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40W;
Max resolution: 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz
Some: **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts;
Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
Some: **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts;
Max resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz

DP cable

Optional DisplayPort to DVI-D monitor cable

Chipset

AMD A78 Chipset

Front ports

Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

Rear ports

Up to six USB ports (2x USB 3.0 + 2x USB 2.0 + 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports

Rear audio ports

Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)

IEEE 1394

Optional FireWire PCIe adapter, 1394a-2000, 400Mbps, two 6-pin ports on rear

Audio support

High Definition (HD) Audio, Realtek ALC662 / internal speakers (1watt x 2)

WLAN[13]

Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8192EE, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
Some: 11ac/b/g/n wireless, PCIe Half Mini Card, Broadcom BCM4352, dual band (2.4/5GHz), Wi-Fi + Bluetooth 4.0 combo adapter, 2x2

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek 8111EPV, Wake on LAN®

Modem

None

Manageability

Enhanced Manageability with DASH 1.1

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Padlock loop (in rear for opt padlock)
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock to physically lock both keyboard and mouse (optional)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

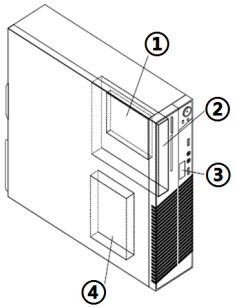
Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color; metal case, 11L
- 13.2" W X 15.0" D X 3.9" H
- 335mm W X 382mm D X 101mm H
- 14.6 lb (6.6 kg) in maximum configuration

Bay 1: N/A, N/A, internal, opt SSD
Bay 2: 5.25", 1.6" high, external, std disk
Bay 3: N/A, N/A, external, opt reader
Bay 4: 3.5", 1" high, internal, std disk
*bay only available on models with HDD/SSD/reader installed
Slot 1: Low Profile, PCI Express 3.0 x16 (40w max)
Slot 2: Low Profile, PCIe 2.0 x1
Slot 2: Low Profile, PCIe 2.0 x1
Slot 4: Low Profile, 32-bit PCI 2.3



Floor Stand

Optional system floor stand for vertical orientation

Power supply

Some: 180 watts, autosensing, 100-240V (50-60Hz)
Some: 240 watts, autosensing, 100-240V (50-60Hz)
Some: 240 watts, autosensing, 85% PSU, 100-240V (50-60Hz)

Limited warranty[3]

Some: **3-years**, **limited onsite service** / service upgrades available
Some: **3-years**, **limited onsite service, IWS** (International Warranty Service[9]) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 32
Some: Windows 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- Desktop Power Manager
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Nitro Pro

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

Web install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage System Update
- Desktop Power Manager
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Lenovo SHAREit
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Nitro Pro
- AccuWeather
- Norton™ Studio
- Pokki
- Hightail

Environment

ENERGY STAR® 6.0 (Need 85% PSU and Windows OS);
EPEAT™ Gold rating (Need 85% PSU and Windows OS);
GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

For compatible accessories, please go to TC-AQP sheet

(ALSK1-SFF) July 2014 © Lenovo

ThinkCentre M79 Tower Platform Specifications

Product Specifications Reference (PSREF)

Processor

AMD A4, A6, A8, or A10 series APUs

APU	Cores	Frequency (Max/Base)	L2 Cache	Memory Types	Integrated Graphics
A4-6300B	2	3.9 / 3.7	1MB	DDR3-1600	HD 8370D
A6-6400B	2	4.1 / 3.9	1MB	DDR3-1866	HD 8470D
A8-6500B	4	4.1 / 3.5	4MB	DDR3-1866	HD 8570D
A6 PRO-7400B	2	3.9 / 3.5	1MB	DDR3-1866	Radeon R5 Series
A8 PRO-7600B	4	3.8 / 3.1	4MB	DDR3-2133	Radeon R7 Series

Memory

32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

Disk

Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

SATA 6.0Gb/s controller, three connectors on planar, RAID 0/1 support

Media reader

Optional 7-in-1 single slot media card reader

Graphics

AMD Radeon™ Graphics in processor, uses main memory, one VGA, one DisplayPort™, one optional DP, supports up to three independent displays, works along with optional discrete graphics to support up to five independent displays;
Maximum resolution: 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz
Some: **AMD Radeon HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40W;
Max resolution: 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz
Some: **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts;
Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
Some: **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts;
Max resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz

DP cable

Optional DisplayPort to DVI-D monitor cable

Chipset

AMD A78 FCH

Front ports

Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

Rear ports

Up to six USB ports (2x USB 3.0 + 2x USB 2.0 + 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports

Rear audio ports

Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)

IEEE 1394

Optional FireWire PCIe adapter, 1394a-2000, 400Mbps, two 6-pin ports on rear

Audio support

High Definition (HD) Audio, Realtek ALC662 / internal speakers (1.5watt x 2)

WLAN[13]

Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8192EE, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
Some: 11ac/b/g/n wireless, PCIe Half Mini Card, Broadcom BCM4352, dual band (2.4/5GHz), Wi-Fi + Bluetooth 4.0 combo adapter, 2x2

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek 8111EPV, Wake on LAN®

Modem

None

Manageability

Enhanced Manageability with DASH 1.1

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Padlock loop (in rear for opt padlock)
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock to physically lock both keyboard and mouse (optional)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

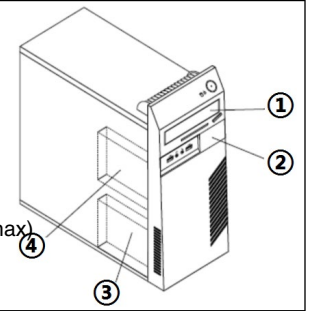
Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color; metal case, 20L
- 6.3" W X 16.6" D X 15.3" H (with handle)
- 160mm W X 422mm D X 388mm H
- 20.7 lb (9.4 kg) in maximum configuration

Bay 1: 5.25", 1.6" high, access, std optical
Bay 2: N/A, N/A, access, opt reader
Bay 3: 3.5", 1" high, no access, std disk
Bay 4: 3.5", 1" high, no access, opt disk
*bay only available on models with HDD/SSD/reader installed
Slot 1: half-length, full-height, PCIe 3.0 x16 (60w max)
Slot 2: half-length, full-height, PCIe 2.0 x1
Slot 3: half-length, full-height, PCIe 2.0 x1
Slot 4: half-length, full-height, 32-bit PCI 2.3



Power supply

Some: 180 watts, autosensing, 100-240V (50-60Hz)
Some: 280 watts, autosensing, 100-240V (50-60Hz)
Some: 280 watts, autosensing, 85% PSU, 100-240V (50-60Hz)

Limited warranty[3]

Some: **3-years**, **limited onsite service** / service upgrades available
Some: **3-years**, **limited onsite service, IWS** (International Warranty Service[9]) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 32
Some: Windows 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- Desktop Power Manager
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Nitro Pro

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

Web install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage System Update
- Desktop Power Manager
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Lenovo SHAREit
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Nitro Pro
- AccuWeather
- Norton™ Studio
- Pokki
- Hightail

Environment

ENERGY STAR® 6.0 (Need 85% PSU and Windows OS);
EPEAT™ Gold rating (Need 85% PSU and Windows OS);
GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M79 SFF (10CV) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Graphics	Storage	Optical	WLAN	Media reader	2nd Serial / Parallel	PS/2 Ports	2nd DP Port	Optional 2 rear USB	IEEE 1394	Chassis intrusion switch	Cable lock	Floor Stand	Key-board/ Mouse	Power Supply	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10CV0000US	A6 6400B	4Gx1	HD 8470D	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	07/14
10CV0001US	A8 6500B	4Gx1	HD 8570D	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	07/14
10CV0002US	A8 7600B	4Gx1	Radeon R7	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	240W	Win7 P64 DG Win8.1	3-onsite	No	07/14
10CV0003US	A4 6300B	4Gx1	HD 8370D	500G 7200	DVD	None	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	10/14
10CV000VUS	A6 7400B	4Gx1	Radeon R5	500GB 7200	DVD±RW	None	Media	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	02/15
10CV000WUS	A8 7600B	4Gx1	Radeon R7	500GB 7200	DVD±RW	None	None	None	PS/2	None	USB	None	None	Cable	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	02/15
10CV000UUS	A10 7800B	8Gx1	Radeon R7	500GB 7200	DVD±RW	None	Media	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	02/15
10CV000TUS	A10 7800B	4Gx1	Radeon R7	500GB 7200	DVD±RW	None	Media	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	02/15

- *For detailed platform specifications, please see ThinkCentre M79 SFF Platform Specifications sheet*

Processor — AMD A4, A6, A8, or A10 series APUs

APU	Cores	Frequency (Max/Base)	L2 Cache	Memory Types	Integrated Graphics
A4-6300B	2	3.9 / 3.7	1MB	DDR3-1600	HD 8370D
A6-6400B	2	4.1 / 3.9	1MB	DDR3-1866	HD 8470D
A8-6500B	4	4.1 / 3.5	4MB	DDR3-1866	HD 8570D
A6 PRO-7400B	2	3.9 / 3.5	1MB	DDR3-1866	Radeon R5 Series
A8 PRO-7600B	4	3.8 / 3.1	4MB	DDR3-2133	Radeon R7 Series

Memory — 32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

Disk
Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 2.5"
Some: 1TB (7200 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 3.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical
Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA — SATA 6.0Gb/s controller, three connectors on planar, RAID 0/1 support (only applicable on dual SSD models)

Media reader — Optional 7-in-1 single slot media card reader

Graphics — **AMD Radeon™ Graphics** in processor, uses main memory, one VGA, one DisplayPort™, one optional DP, supports up to three independent displays, works along with optional discrete graphics to support up to five independent displays;
Some: **AMD Radeon HD 8570**, DirectX 11, one VGA, one HDMI, 40W;
Some: **NVIDIA® Geforce® GT 620**, DirectX 11, one VGA, one DisplayPort, 30W;
Some: **AMD Radeon™ HD 7450**, DirectX 11, one DVI-I one DisplayPort, 25W;

DP cable — Optional DisplayPort to DVI-D monitor cable

Chipset — **AMD A78 Chipset**

Front ports — Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

Rear ports — Up to six USB ports (2x USB 3.0 + 2x USB 2.0 + 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports

Rear audio ports — Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)

IEEE 1394 — Optional FireWire PCIe adapter, 1394a-2000, 400Mbps, two 6-pin ports on rear

Audio support — High Definition (HD) Audio, Realtek ALC662 / internal speakers (1watt x 2)

WLAN[13]
Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11ac/b/g/n wireless, Broadcom BCM4352, 2.4/5GHz, Wi-Fi + BT 4.0, 2x2

Bluetooth™ — *Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet — One gigabit ethernet port, Realtek 8111EPV, Wake on LAN®

Modem — None

Manageability — Enhanced Manageability with DASH 1.1

Security chip — Trusted Platform Module, TCG 1.2-compliant

Security features
- Padlock loop (in rear for opt padlock)
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock to physically lock both keyboard and mouse (optional)
- Power-on, Admin, Hard Disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard
USB: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Finger: Lenovo USB Fingerprint Keyboard (USB connector)
2.4G: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse
USB: Enhanced Optical USB Mouse, black, Lenovo logo
2.4G: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical
- Business black color; metal case, 11L
- 13.2" W X 15.0" D X 3.9" H
- 335mm W X 382mm D X 101mm H
- 14.6 lb (6.6 kg) in maximum configuration

Bay: 5.25" x1, 3.5"x1, SSD bay x1, MCR bay x1
*SSD bay only available on models with 2nd SSD installed
Slot (Low Profile): one PCIe 3.0 x16 (40w max), two PCIe 2.0 x1, one PCI 2.3

Floor Stand — Optional system floor stand for vertical orientation

Power supply
180W: 180 watts, autosensing, 100-240V (50-60Hz)
240W: 240 watts, autosensing, 100-240V (50-60Hz)
240W ES: 240 watts, autosensing, 85% PSU, 100-240V (50-60Hz)

Limited warranty[3]
Some: **3-years**, **limited onsite service** / service upgrades available
Some: **3-years**, **limited onsite service, IWS** (International Warranty Service[9]) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload
Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 32
Some: Windows 7 Professional 64
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

Environment — ENERGY STAR® 6.0 (Need 85% PSU and Windows OS);
EPEAT™ Gold rating (Need 85% PSU and Windows OS);
GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories — For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M79 Tower (10CN) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Graphics	Storage	Optical	WLAN	Media reader	2nd Serial / Parallel	PS/2 Ports	2nd DP Port	Optional 2 rear USB	IEEE 1394	Chassis intrusion switch	Cable lock	Floor Stand	Key-board/ Mouse	Power Supply	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10CN0000US	A4 6300B	4Gx1	HD 8370D	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	07/14
10CN0001US	A8 6500B	4Gx1	HD 8570D	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	07/14
10CN0002US	A8 7600B	4Gx1	Radeon R7	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	280W	Win7 P64 DG Win8.1	3-onsite	No	07/14
10CN0003US	A6 6400B	4Gx1	HD 8470D	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	07/14
10CN000WUS	A10 7800B	8Gx1	Radeon R7	500GB 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	280W	Win7 P64 DG Win8.1	3-onsite	No	11/14
10CN000VUS	A10 7800B	4Gx1	Radeon R7	500GB 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	280W	Win7 P64 DG Win8.1	3-onsite	No	11/14
10CN000XUS	A6 7400B	4Gx1	Radeon R5	500GB 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	02/15

- *For detailed platform specifications, please see ThinkCentre M79 Tower Platform Specifications sheet*

Processor

AMD A4, A6, A8, or A10 series APUs

APU	Cores	Frequency (Max/Base)	L2 Cache	Memory Types	Integrated Graphics
A4-6300B	2	3.9 / 3.7	1MB	DDR3-1600	HD 8370D
A6-6400B	2	4.1 / 3.9	1MB	DDR3-1866	HD 8470D
A8-6500B	4	4.1 / 3.5	4MB	DDR3-1866	HD 8570D
A6 PRO-7400B	2	3.9 / 3.5	1MB	DDR3-1866	Radeon R5 Series
A8 PRO-7600B	4	3.8 / 3.1	4MB	DDR3-2133	Radeon R7 Series

Memory

32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

Disk

Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 2.5"
Some: 1TB (7200 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 3.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

SATA 6.0Gb/s controller, three connectors on planar, RAID 0/1 support

Media reader

Optional 7-in-1 single slot media card reader

Graphics

AMD Radeon™ Graphics in processor, uses main memory, one VGA, one DisplayPort™, one optional DP, supports up to three independent displays, works along with optional discrete graphics to support up to five independent displays;
Some: **AMD Radeon HD 8570**, DirectX 11, one VGA, one HDMI, 40W;
Some: **NVIDIA® Geforce® GT 620**, DirectX 11, one VGA, one DisplayPort, 30W;
Some: **AMD Radeon™ HD 7450**, DirectX 11, one DVI-I one DisplayPort, 25W;

DP cable

Optional DisplayPort to DVI-D monitor cable

Chipset

AMD A78 FCH

Front ports

Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

Rear ports

Up to six USB ports (2x USB 3.0 + 2x USB 2.0 + 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports

Rear audio ports

Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)

IEEE 1394

Optional FireWire PCIe adapter, 1394a-2000, 400Mbps, two 6-pin ports on rear

Audio support

High Definition (HD) Audio, Realtek ALC662 / internal speakers (1.5watt x 2)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11ac/b/g/n wireless, Broadcom BCM4352, 2.4/5GHz, Wi-Fi + BT 4.0, 2x2

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek 8111EPV, Wake on LAN®

Modem

None

Manageability

Enhanced Manageability with DASH 1.1

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Padlock loop (in rear for opt padlock)
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock to physically lock both keyboard and mouse (optional)
- Power-on, Admin, Hard Disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

USB: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Finger: Lenovo USB Fingerprint Keyboard (USB connector)
2.4G Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

USB: Enhanced Optical USB Mouse, black, Lenovo logo
2.4G: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color; metal case, 20L
- 6.3" W X 16.6" D X 15.3" H (with handle)
- 160mm W X 422mm D X 388mm H
- 20.7 lb (9.4 kg) in maximum configuration

Bay: 5.25" x1, 3.5" x2, MCR Bay x1
Slot (half-length): one PCIe 3.0 x16 (60w max), two PCIe 2.0 x1, one PCI 2.3

Power supply

180W: 180 watts, autosensing, 100-240V (50-60Hz)
280W: 280 watts, autosensing, 100-240V (50-60Hz)
280W ES: 280 watts, autosensing, 85% PSU, 100-240V (50-60Hz)

Limited warranty[3]

Some: **3-years**, **limited onsite service** / service upgrades available
Some: **3-years**, **limited onsite service, IWS** (International Warranty Service[9]) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 32
Some: Windows 7 Professional 64
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

Environment

ENERGY STAR® 6.0 (Need 85% PSU and Windows OS);
EPEAT™ Gold rating (Need 85% PSU and Windows OS);
GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M79 SFF (10CT)

Product Specifications Reference (PSREF)

Type-model	Processor	Mem-ory	Graphics	Storage	Optical	WLAN	Media reader	2nd Serial / Parallel	PS/2 Ports	2nd DP Port	Optional 2 rear USB	IEEE 1394	Chassis intrusion switch	Cable lock	Floor Stand	Key-board/ Mouse	Power Supply	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10CT0006US	A4 6300B	2Gx1	HD 8370D	250G 7200	DVD	None	None	None	PS/2	None	None	None	Switch	None	None	USB	240W ES	Win7 Pro32	3-onsite	G	07/14
10CT0007US	A6 7400B	2Gx1	Radeon R5	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	Switch	None	None	USB	240W ES	Win7 Pro32	3-onsite	G	07/14
10CT0008US	A6 6400B	4Gx1	HD 8470D	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	240W ES	Win7 P64 DG Win8.1	3-onsite	None	08/14
10CT0009US	A6 6400B	4Gx1	HD 8470D	500G 7200	DVD±RW	8723BE	None	None	PS/2	None	None	None	None	None	None	USB	240W ES	Win7 P64 DG Win8.1	3-onsite	None	08/14
10CT000AUS	A8 7600B	8Gx1	Radeon R7	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	240W ES	Win7 P64 DG Win8.1	3-onsite	None	08/14
10CT000BUS	A8 7600B	8Gx1	GT 620	500G 7200	DVD±RW	8723BE	None	None	PS/2	None	None	None	None	None	None	USB	240W ES	Win7 P64 DG Win8.1	3-onsite	None	08/14

- *For detailed platform specifications, please see ThinkCentre M79 SFF Platform Specifications sheet*

Processor

AMD A4, A6, A8, or A10 series APUs

APU	Cores	Frequency (Max/Base)	L2 Cache	Memory Types	Integrated Graphics
A4-6300B	2	3.9 / 3.7	1MB	DDR3-1600	HD 8370D
A6-6400B	2	4.1 / 3.9	1MB	DDR3-1866	HD 8470D
A8-6500B	4	4.1 / 3.5	4MB	DDR3-1866	HD 8570D
A6 PRO-7400B	2	3.9 / 3.5	1MB	DDR3-1866	Radeon R5 Series
A8 PRO-7600B	4	3.8 / 3.1	4MB	DDR3-2133	Radeon R7 Series

Memory

32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

Disk

Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 2.5"
Some: 1TB (7200 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 3.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

SATA 6.0Gb/s controller, three connectors on planar, RAID 0/1 support (only applicable on dual SSD models)

Media reader

Optional 7-in-1 single slot media card reader

Graphics

AMD Radeon™ Graphics in processor, uses main memory, one VGA, one DisplayPort™, one optional DP, supports up to three independent displays, works along with optional discrete graphics to support up to five independent displays;
Some: **AMD Radeon HD 8570**, DirectX 11, one VGA, one HDMI, 40W;
Some: **NVIDIA® Geforce® GT 620**, DirectX 11, one VGA, one DisplayPort, 30W;
Some: **AMD Radeon™ HD 7450**, DirectX 11, one DVI-I one DisplayPort, 25W;

DP cable

Optional DisplayPort to DVI-D monitor cable

Chipset

AMD A78 Chipset

Front ports

Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

Rear ports

Up to six USB ports (2x USB 3.0 + 2x USB 2.0 + 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports

Rear audio ports

Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)

IEEE 1394

Optional FireWire PCIe adapter, 1394a-2000, 400Mbps, two 6-pin ports on rear

Audio support

High Definition (HD) Audio, Realtek ALC662 / internal speakers (1watt x 2)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11ac/b/g/n wireless, Broadcom BCM4352, 2.4/5GHz, Wi-Fi + BT 4.0, 2x2

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek 8111EPV, Wake on LAN®

Modem

None

Manageability

Enhanced Manageability with DASH 1.1

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Padlock loop (in rear for opt padlock)
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock to physically lock both keyboard and mouse (optional)
- Power-on, Admin, Hard Disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

USB: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Finger: Lenovo USB Fingerprint Keyboard (USB connector)
2.4G: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

USB: Enhanced Optical USB Mouse, black, Lenovo logo
2.4G: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color; metal case, 11L
- 13.2" W X 15.0" D X 3.9" H
- 335mm W X 382mm D X 101mm H
- 14.6 lb (6.6 kg) in maximum configuration

Bay: 5.25" x1, 3.5"x1, SSD bay x1, MCR bay x1
*SSD bay only available on models with 2nd SSD installed
Slot (Low Profile): one PCIe 3.0 x16 (40w max), two PCIe 2.0 x1, one PCI 2.3

Floor Stand

Optional system floor stand for vertical orientation

Power supply

180W: 180 watts, autosensing, 100-240V (50-60Hz)
240W: 240 watts, autosensing, 100-240V (50-60Hz)
240W ES: 240 watts, autosensing, 85% PSU, 100-240V (50-60Hz)

Limited warranty[3]

Some: **3-years**, **limited onsite service** / service upgrades available
Some: **3-years**, **limited onsite service, IWS** (International Warranty Service[9]) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 32
Some: Windows 7 Professional 64
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

Environment

ENERGY STAR® 6.0 (Need 85% PSU and Windows OS);
EPEAT™ Gold rating (Need 85% PSU and Windows OS);
GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M79 SFF (10CW)

Product Specifications Reference (PSREF)

Type-model	Processor	Mem-ory	Graphics	Storage	Optical	WLAN	Media reader	2nd Serial / Parallel	PS/2 Ports	2nd DP Port	Optional 2 rear USB	IEEE 1394	Chassis intrusion switch	Cable lock	Floor Stand	Key-board/ Mouse	Power Supply	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10CW000BUS	A4 6300B	4Gx1	HD 8370D	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	None	08/14
10CW000CUS	A8 6500B	4Gx1	HD 8570D	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	None	08/14
10CW000DUS	A8 6500B	8Gx1	GT 620	1TB 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	None	08/14

- *For detailed platform specifications, please see ThinkCentre M79 SFF Platform Specifications sheet*

Processor

AMD A4, A6, A8, or A10 series APUs

APU	Cores	Frequency (Max/Base)	L2 Cache	Memory Types	Integrated Graphics
A4-6300B	2	3.9 / 3.7	1MB	DDR3-1600	HD 8370D
A6-6400B	2	4.1 / 3.9	1MB	DDR3-1866	HD 8470D
A8-6500B	4	4.1 / 3.5	4MB	DDR3-1866	HD 8570D
A6 PRO-7400B	2	3.9 / 3.5	1MB	DDR3-1866	Radeon R5 Series
A8 PRO-7600B	4	3.8 / 3.1	4MB	DDR3-2133	Radeon R7 Series

Memory

32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

Disk

Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 2.5"
Some: 1TB (7200 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 3.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

SATA 6.0Gb/s controller, three connectors on planar, RAID 0/1 support (only applicable on dual SSD models)

Media reader

Optional 7-in-1 single slot media card reader

Graphics

AMD Radeon™ Graphics in processor, uses main memory, one VGA, one DisplayPort™, one optional DP, supports up to three independent displays, works along with optional discrete graphics to support up to five independent displays;
Some: **AMD Radeon HD 8570**, DirectX 11, one VGA, one HDMI, 40W;
Some: **NVIDIA® Geforce® GT 620**, DirectX 11, one VGA, one DisplayPort, 30W;
Some: **AMD Radeon™ HD 7450**, DirectX 11, one DVI-I one DisplayPort, 25W;

DP cable

Optional DisplayPort to DVI-D monitor cable

Chipset

AMD A78 Chipset

Front ports

Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

Rear ports

Up to six USB ports (2x USB 3.0 + 2x USB 2.0 + 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports

Rear audio ports

Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)

IEEE 1394

Optional FireWire PCIe adapter, 1394a-2000, 400Mbps, two 6-pin ports on rear

Audio support

High Definition (HD) Audio, Realtek ALC662 / internal speakers (1watt x 2)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11ac/b/g/n wireless, Broadcom BCM4352, 2.4/5GHz, Wi-Fi + BT 4.0, 2x2

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek 8111EPV, Wake on LAN®

Modem

None

Manageability

Enhanced Manageability with DASH 1.1

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Padlock loop (in rear for opt padlock)
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock to physically lock both keyboard and mouse (optional)
- Power-on, Admin, Hard Disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

USB: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Finger: Lenovo USB Fingerprint Keyboard (USB connector)
2.4G: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

USB: Enhanced Optical USB Mouse, black, Lenovo logo
2.4G: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color; metal case, 11L
- 13.2" W X 15.0" D X 3.9" H
- 335mm W X 382mm D X 101mm H
- 14.6 lb (6.6 kg) in maximum configuration

Bay: 5.25" x1, 3.5"x1, SSD bay x1, MCR bay x1
*SSD bay only available on models with 2nd SSD installed
Slot (Low Profile): one PCIe 3.0 x16 (40w max), two PCIe 2.0 x1, one PCI 2.3

Floor Stand

Optional system floor stand for vertical orientation

Power supply

180W: 180 watts, autosensing, 100-240V (50-60Hz)
240W: 240 watts, autosensing, 100-240V (50-60Hz)
240W ES: 240 watts, autosensing, 85% PSU, 100-240V (50-60Hz)

Limited warranty[3]

Some: **3-years**, **limited onsite service** / service upgrades available
Some: **3-years**, **limited onsite service, IWS** (International Warranty Service[9]) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 32
Some: Windows 7 Professional 64
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

Environment

ENERGY STAR® 6.0 (Need 85% PSU and Windows OS);
EPEAT™ Gold rating (Need 85% PSU and Windows OS);
GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M79 Tower (10CQ)

Type-model	Processor	Mem-ory	Graphics	Storage	Optical	WLAN	Media reader	2nd Serial / Parallel	PS/2 Ports	2nd DP Port	Optional 2 rear USB	IEEE 1394	Chassis intrusion switch	Cable lock	Floor Stand	Key-board/ Mouse	Power Supply	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10CQ0005US	A4 6300B	2Gx1	HD 8370D	250G 7200	DVD	None	None	None	PS/2	None	None	None	Switch	None	None	USB	280W ES	Win7 Pro32	3-onsite IWS	G	07/14
10CQ0006US	A6 7400B	2Gx1	Radeon R5	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	Switch	None	None	USB	280W ES	Win7 Pro32	3-onsite IWS	G	07/14
10CQ0007US	A8 7600B	4Gx1	HD 8570	1TB 7200	DVD±RW	None	Media	P	PS/2	None	None	None	Switch	None	None	USB	280W ES	Win7 Pro64	3-onsite IWS	G	07/14

- *For detailed platform specifications, please see ThinkCentre M79 Tower Platform Specifications sheet*

Processor

AMD A4, A6, A8, or A10 series APUs

APU	Cores	Frequency (Max/Base)	L2 Cache	Memory Types	Integrated Graphics
A4-6300B	2	3.9 / 3.7	1MB	DDR3-1600	HD 8370D
A6-6400B	2	4.1 / 3.9	1MB	DDR3-1866	HD 8470D
A8-6500B	4	4.1 / 3.5	4MB	DDR3-1866	HD 8570D
A6 PRO-7400B	2	3.9 / 3.5	1MB	DDR3-1866	Radeon R5 Series
A8 PRO-7600B	4	3.8 / 3.1	4MB	DDR3-2133	Radeon R7 Series

Memory

32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

Disk

Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 2.5"
Some: 1TB (7200 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 3.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

SATA 6.0Gb/s controller, three connectors on planar, RAID 0/1 support

Media reader

Optional 7-in-1 single slot media card reader

Graphics

AMD Radeon™ Graphics in processor, uses main memory, one VGA, one DisplayPort™, one optional DP, supports up to three independent displays, works along with optional discrete graphics to support up to five independent displays;
Some: **AMD Radeon HD 8570**, DirectX 11, one VGA, one HDMI, 40W;
Some: **NVIDIA® Geforce® GT 620**, DirectX 11, one VGA, one DisplayPort, 30W;
Some: **AMD Radeon™ HD 7450**, DirectX 11, one DVI-I one DisplayPort, 25W;

DP cable

Optional DisplayPort to DVI-D monitor cable

Chipset

AMD A78 FCH

Front ports

Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

Rear ports

Up to six USB ports (2x USB 3.0 + 2x USB 2.0 + 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports

Rear audio ports

Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)

IEEE 1394

Optional FireWire PCIe adapter, 1394a-2000, 400Mbps, two 6-pin ports on rear

Audio support

High Definition (HD) Audio, Realtek ALC662 / internal speakers (1.5watt x 2)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11ac/b/g/n wireless, Broadcom BCM4352, 2.4/5GHz, Wi-Fi + BT 4.0, 2x2

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek 8111EPV, Wake on LAN®

Modem

None

Manageability

Enhanced Manageability with DASH 1.1

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Padlock loop (in rear for opt padlock)
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock to physically lock both keyboard and mouse (optional)
- Power-on, Admin, Hard Disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

USB: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Finger: Lenovo USB Fingerprint Keyboard (USB connector)
2.4G Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

USB: Enhanced Optical USB Mouse, black, Lenovo logo
2.4G: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color; metal case, 20L
- 6.3" W X 16.6" D X 15.3" H (with handle)
- 160mm W X 422mm D X 388mm H
- 20.7 lb (9.4 kg) in maximum configuration

Bay: 5.25" x1, 3.5" x2, MCR Bay x1
Slot (half-length): one PCIe 3.0 x16 (60w max), two PCIe 2.0 x1, one PCI 2.3

Power supply

180W: 180 watts, autosensing, 100-240V (50-60Hz)
280W: 280 watts, autosensing, 100-240V (50-60Hz)
280W ES: 280 watts, autosensing, 85% PSU, 100-240V (50-60Hz)

Limited warranty[3]

Some: **3-years**, **limited onsite service** / service upgrades available
Some: **3-years**, **limited onsite service, IWS** (International Warranty Service[9]) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 32
Some: Windows 7 Professional 64
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

Environment

ENERGY STAR® 6.0 (Need 85% PSU and Windows OS);
EPEAT™ Gold rating (Need 85% PSU and Windows OS);
GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M79 Tower (10CS)

Product Specifications Reference (PSREF)

Type-model	Processor	Mem-ory	Graphics	Storage	Optical	WLAN	Media reader	2nd Serial / Parallel	PS/2 Ports	2nd DP Port	Optional 2 rear USB	IEEE 1394	Chassis intrusion switch	Cable lock	Floor Stand	Key-board/ Mouse	Power Supply	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10CS0003US	A4 6300B	4Gx1	HD 8370D	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	Switch	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	None	08/14

- *For detailed platform specifications, please see ThinkCentre M79 Tower Platform Specifications sheet*

Processor

AMD A4, A6, A8, or A10 series APUs

APU	Cores	Frequency (Max/Base)	L2 Cache	Memory Types	Integrated Graphics
A4-6300B	2	3.9 / 3.7	1MB	DDR3-1600	HD 8370D
A6-6400B	2	4.1 / 3.9	1MB	DDR3-1866	HD 8470D
A8-6500B	4	4.1 / 3.5	4MB	DDR3-1866	HD 8570D
A6 PRO-7400B	2	3.9 / 3.5	1MB	DDR3-1866	Radeon R5 Series
A8 PRO-7600B	4	3.8 / 3.1	4MB	DDR3-2133	Radeon R7 Series

Memory

32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

Disk

Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 2.5"
Some: 1TB (7200 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 3.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

SATA 6.0Gb/s controller, three connectors on planar, RAID 0/1 support

Media reader

Optional 7-in-1 single slot media card reader

Graphics

AMD Radeon™ Graphics in processor, uses main memory, one VGA, one DisplayPort™, one optional DP, supports up to three independent displays, works along with optional discrete graphics to support up to five independent displays;
Some: **AMD Radeon HD 8570**, DirectX 11, one VGA, one HDMI, 40W;
Some: **NVIDIA® Geforce® GT 620**, DirectX 11, one VGA, one DisplayPort, 30W;
Some: **AMD Radeon™ HD 7450**, DirectX 11, one DVI-I one DisplayPort, 25W;

DP cable

Optional DisplayPort to DVI-D monitor cable

Chipset

AMD A78 FCH

Front ports

Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

Rear ports

Up to six USB ports (2x USB 3.0 + 2x USB 2.0 + 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports

Rear audio ports

Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)

IEEE 1394

Optional FireWire PCIe adapter, 1394a-2000, 400Mbps, two 6-pin ports on rear

Audio support

High Definition (HD) Audio, Realtek ALC662 / internal speakers (1.5watt x 2)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11ac/b/g/n wireless, Broadcom BCM4352, 2.4/5GHz, Wi-Fi + BT 4.0, 2x2

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek 8111EPV, Wake on LAN®

Modem

None

Manageability

Enhanced Manageability with DASH 1.1

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Padlock loop (in rear for opt padlock)
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock to physically lock both keyboard and mouse (optional)
- Power-on, Admin, Hard Disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

USB: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Finger: Lenovo USB Fingerprint Keyboard (USB connector)
2.4G Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

USB: Enhanced Optical USB Mouse, black, Lenovo logo
2.4G: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color; metal case, 20L
- 6.3" W X 16.6" D X 15.3" H (with handle)
- 160mm W X 422mm D X 388mm H
- 20.7 lb (9.4 kg) in maximum configuration

Bay: 5.25" x1, 3.5" x2, MCR Bay x1
Slot (half-length): one PCIe 3.0 x16 (60w max), two PCIe 2.0 x1, one PCI 2.3

Power supply

180W: 180 watts, autosensing, 100-240V (50-60Hz)
280W: 280 watts, autosensing, 100-240V (50-60Hz)
280W ES: 280 watts, autosensing, 85% PSU, 100-240V (50-60Hz)

Limited warranty[3]

Some: **3-years**, **limited onsite service** / service upgrades available
Some: **3-years**, **limited onsite service, IWS** (International Warranty Service[9]) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 32
Some: Windows 7 Professional 64
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

Environment

ENERGY STAR® 6.0 (Need 85% PSU and Windows OS);
EPEAT™ Gold rating (Need 85% PSU and Windows OS);
GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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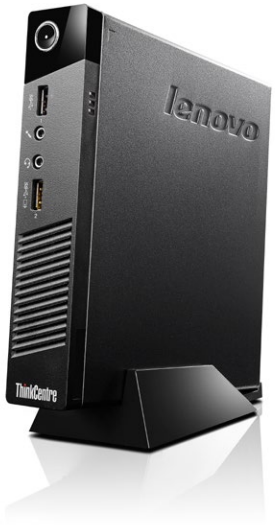
ThinkCentre M83 Tiny with optional floor stand, wireless Keyboard/mouse, and monitor



ThinkCentre M83 Tiny with optional floor stand

ThinkCentre M83 Tiny with optional VESA mount kit

ThinkCentre M83 Tiny with optional optical box

ThinkCentre M83 Tiny with optional I/O box

ThinkCentre M83 Tiny

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ThinkCentre M83 Tiny Platform Specifications

Processor

Intel® Celeron®, Intel Pentium®, or 4th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics
Core i3-4130T	2 / 4	2.90 GHz	3MB	DDR3-1600	Intel HD 4400
Core i3-4150T	2 / 4	3.00 GHz	3MB	DDR3-1600	Intel HD 4400
Core i5-4590T	4 / 4	2.00 / 3.00 GHz	6MB	DDR3-1600	Intel HD 4600
Core i7-4785T	4 / 8	2.20 / 3.20 GHz	8MB	DDR3-1600	Intel HD 4600

Memory

16GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, two 204-pin SO-DIMM sockets
* System automatically clocks down for processors with1333MHz DDR3 memory controller

Disk

Some: hard disk, 2.5" Wide, 5400 or 7200 rpm, Active Protection System™
Some: 500GB (5400 rpm) Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, 2.5" wide
Some: Solid State Drive (SSD) / 2.5" Wide

Optical

Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB
Some: external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB

Onboard SATA

SATA 6.0Gb/s controller, one connector on planar

Media reader

None

Graphics

Intel HD Graphics or **Intel HD Graphics 4400/4600,** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on some models, supports up to 3 independent displays; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)

DP cable

Optional DisplayPort to DVI-D monitor cable

Chipset

Intel Q85 Chipset

Front ports
Rear ports

Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Two USB 3.0, one USB 2.0 (optional external optical box or external I/O box occupies specific USB 2.0 on some models), ethernet (RJ-45), VGA, DisplayPort, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on some models)

I/O box

Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

Audio support

High Definition (HD) Audio, Realtek ALC233 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8192EE, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
Some: 11ac/b/g/n wireless, PCIe Half Mini Card, Broadcom BCM4352, dual band (2.4/5GHz), Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 7260, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
Some: 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo 4.0 adapter, 2x2

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®

Modem

None

Manageability

Intel Standard Manageability

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

Tiny (1L), business black color; metal case

M83 Tiny only	7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.9 lb (1.3 kg), weight may vary by configuration
M83 Tiny with VESA mount & optical box	7.2" W X 7.2" D X 2.6" H 184mm W X 182mm D X 65mm H 5.1 lb (2.3 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty[3]

Some: **3-years**, **limited onsite service** / service upgrades available
Some: **3-years**, **limited onsite service, IWS** (International Warranty Service[9]) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 32/64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- PC Device Stage
- Desktop Power Manager
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SHAREit
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Nitro Pro

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

Web install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage System Update
- Desktop Power Manager
- Lenovo Solution Center
- PC Device Stage
- Lenovo Companion
- Lenovo SHAREit
- Lenovo Reach
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Nitro Pro
- Norton™ Studio
- Pokki

Environment

ENERGY STAR® 6.0; EPEAT™ Gold rating (U.S.); GREENGUARD®; RoHS-compliant; ErP Lot 3; UL Environment Gold; TUV; Cisco EnergyWise compatible

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M83 Tiny (10E9) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Graphics	Memory	Storage	External optical / I/O box	WLAN	DP Cable	Optional port	Chassis intrusion switch	Floor Stand	VESA mount	Keyboard/ Mouse	Internal Speaker	Kensington cable lock	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10E9000NUS	i3-4130T	Intel HD 4400	4GBx1	500GB 7200	None	7260 b/g/n	None	USB	None	Stand	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000PUS	i3-4130T	Intel HD 4400	4GBx1	500GB 7200	None	7260 b/g/n	None	2nd DP	None	Stand	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000QUS	i3-4130T	Intel HD 4400	4GBx1	256GB SSD	None	7260 b/g/n	None	2nd DP	None	Stand	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000RUS	i3-4130T	Intel HD 4400	8GBx1	500GB 7200	None	7260 b/g/n	None	None	None	Stand	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000SUS	i5-4590T	Intel HD 4600	4GBx1	500GB 7200	None	7260 b/g/n	None	None	None	Stand	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000TUS	i5-4590T	Intel HD 4600	8GBx1	500GB 7200	None	7260 b/g/n	None	2nd DP	None	Stand	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000UUS	i5-4590T	Intel HD 4600	4GBx1	256GB SSD	None	7260 b/g/n	None	2nd DP	None	Stand	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000VUS	i7-4785T	Intel HD 4600	4GBx1	500GB 7200	None	7260 b/g/n	None	2nd DP	None	Stand	Mount	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000WUS	i7-4785T	Intel HD 4600	8GBx1	500GB 7200	None	7260 b/g/n	None	2nd DP	None	Stand	Mount	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000XUS	i7-4785T	Intel HD 4600	8GBx1	256GB SSD	None	7260 b/g/n	None	USB	None	Stand	Mount	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000YUS	i7-4785T	Intel HD 4600	4GBx1	256GB SSD	None	7260 b/g/n	None	USB	None	Stand	Mount	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E90010US	i7-4785T	Intel HD 4600	4GBx1	180GB SSD	None	7260 b/g/n	None	2nd DP	None	Stand	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14

- *For detailed platform specifications, please see ThinkCentre M83 Tiny Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 4th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics
Core i3-4130T	2 / 4	2.90 GHz	3MB	DDR3-1600	Intel HD 4400
Core i3-4150T	2 / 4	3.00 GHz	3MB	DDR3-1600	Intel HD 4400
Core i5-4590T	4 / 4	2.00 / 3.00 GHz	6MB	DDR3-1600	Intel HD 4600
Core i7-4785T	4 / 8	2.20 / 3.20 GHz	8MB	DDR3-1600	Intel HD 4600

Memory

16GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, two 204-pin SO-DIMM sockets
* System automatically clocks down for processors with1333MHz DDR3 memory controller

Disk

Some: hard disk, 2.5" Wide, 5400 or 7200 rpm, Active Protection System™
Some: 500GB (5400 rpm) SSHD / with 8GB flash memory, 2.5" wide
Some: Solid State Drive (SSD) / 2.5" Wide

Optical

Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB
Some: external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB

Onboard SATA

SATA 6.0Gb/s controller, one connector on planar

Media reader

None

Graphics

Intel HD Graphics or **Intel HD Graphics 4400/4600,** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on some models, supports up to 3 independent displays; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)

DP cable

Optional DisplayPort to DVI-D monitor cable

Chipset

Intel Q85 Chipset

Front ports

Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Two USB 3.0, one USB 2.0 (optional external optical box or external I/O box occupies specific USB 2.0 on some models), ethernet (RJ-45), VGA, DisplayPort, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on some models)

I/O box

Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

Audio support

High Definition (HD) Audio, Realtek ALC233 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11b/g/n, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11ac/b/g/n, Broadcom BCM4352, dual band, Wi-Fi + BT 4.0 combo, 2x2
Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT 4.0 combo, 2x2
Some: 11ac/a/b/g/n, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo, 2x2

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®

Modem

None

Manageability

Intel Standard Manageability

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

USB: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Finger: Lenovo USB Fingerprint Keyboard (USB connector)
2.4G: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

USB: Enhanced Optical USB Mouse, black, Lenovo logo
2.4G: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

Tiny (1L), business black color; metal case

M83 Tiny only	7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.9 lb (1.3 kg), weight may vary by configuration
M83 Tiny with VESA mount & optical box	7.2" W X 7.2" D X 2.6" H 184mm W X 182mm D X 65mm H 5.1 lb (2.3 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty[3]

Some: **3-years**, **limited onsite service** / service upgrades available
Some: **3-years**, **limited onsite service, IWS** (International Warranty Service[9]) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

Environment

ENERGY STAR® 6.0; EPEAT™ Gold rating (U.S.)
GREENGUARD®; RoHS-compliant; ErP Lot 3; UL Environment Gold; TUV; Cisco EnergyWise compatible

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M83 Tiny (10E8)

Product Specifications Reference (PSREF)

Type-model	Processor	Graphics	Memory	Storage	External optical / I/O box	WLAN	DP Cable	Optional port	Chassis intrusion switch	Floor Stand	VESA mount	Keyboard/ Mouse	Internal Speaker	Kensington cable lock	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10E80017US	i3-4150T	Intel HD 4400	4GBx1	500GB 7200	None	7260 b/g/n	None	None	None	None	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E80018US	i5-4590T	Intel HD 4600	4GBx1	500GB 7200	None	7260 b/g/n	None	2nd DP	None	None	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E80019US	i5-4590T	Intel HD 4600	8GBx1	256GB SSD	None	7260 b/g/n	None	2nd DP	None	None	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E8001AUS	i5-4590T	Intel HD 4600	4GBx1	500GB 7200	None	7260 b/g/n	None	Serial	None	None	Mount	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E8001BUS	i7-4785T	Intel HD 4600	8GBx1	500GB 7200	None	7260 b/g/n	None	2nd DP	None	None	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E8001CUS	i7-4785T	Intel HD 4600	8GBx1	256GB SSD	None	7260 b/g/n	None	USB	None	None	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E8000HUS	i5-4590T	Intel HD 4600	4GBx1	500GB 7200	None	7260 b/g/n	None	None	Switch	None	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite IWS	Yes	10/14
10E8000JUS	i5-4590T	Intel HD 4600	4GBx1	500GB 5400	None	7260 b/g/n	None	None	Switch	None	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite IWS	Yes	10/14
10E8000KUS	i5-4590T	Intel HD 4600	4GBx1	500GB 7200	None	8723BE	None	None	Switch	None	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite IWS	Yes	10/14
10E8000LUS	i5-4590T	Intel HD 4600	4GBx1	500GB 5400	None	8723BE	None	None	Switch	None	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite IWS	Yes	10/14
10E8000MUS	i3-4130T	Intel HD 4400	2GBx1	500GB 7200	None	8723BE	None	None	Switch	None	None	USB	Speaker	None	Win7 Pro64	3-onsite IWS	Yes	10/14
10E8000NUS	i3-4130T	Intel HD 4400	2GBx1	500GB 5400	None	8723BE	None	None	Switch	None	None	USB	Speaker	None	Win7 Pro64	3-onsite IWS	Yes	10/14
10E8001DUS	i3-4150T	Intel HD 4400	2GBx1	500GB 5400	None	8723BE	None	None	Switch	None	None	USB	Speaker	None	Win7 Pro64	3-onsite IWS	Yes	11/14
10E8001EUS	i3-4150T	Intel HD 4400	2GBx1	500GB 7200	None	8723BE	None	None	Switch	None	None	USB	Speaker	None	Win7 Pro64	3-onsite IWS	Yes	11/14

- *For detailed platform specifications, please see ThinkCentre M83 Tiny Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 4th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics
Core i3-4130T	2 / 4	2.90 GHz	3MB	DDR3-1600	Intel HD 4400
Core i3-4150T	2 / 4	3.00 GHz	3MB	DDR3-1600	Intel HD 4400
Core i5-4590T	4 / 4	2.00 / 3.00 GHz	6MB	DDR3-1600	Intel HD 4600
Core i7-4785T	4 / 8	2.20 / 3.20 GHz	8MB	DDR3-1600	Intel HD 4600

Memory

16GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, two 204-pin SO-DIMM sockets
* System automatically clocks down for processors with1333MHz DDR3 memory controller

Disk

Some: hard disk, 2.5" Wide, 5400 or 7200 rpm, Active Protection System™
Some: 500GB (5400 rpm) SSHD / with 8GB flash memory, 2.5" wide
Some: Solid State Drive (SSD) / 2.5" Wide

Optical

Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB
Some: external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB

Onboard SATA

SATA 6.0Gb/s controller, one connector on planar

Media reader

None

Graphics

Intel HD Graphics or **Intel HD Graphics 4400/4600,** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on some models, supports up to 3 independent displays; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)

DP cable

Optional DisplayPort to DVI-D monitor cable

Chipset

Intel Q85 Chipset

Front ports

Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Two USB 3.0, one USB 2.0 (optional external optical box or external I/O box occupies specific USB 2.0 on some models), ethernet (RJ-45), VGA, DisplayPort, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on some models)

I/O box

Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

Audio support

High Definition (HD) Audio, Realtek ALC233 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11b/g/n, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11ac/b/g/n, Broadcom BCM4352, dual band, Wi-Fi + BT 4.0 combo, 2x2
Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT 4.0 combo, 2x2
Some: 11ac/a/b/g/n, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo, 2x2

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®

Modem

None

Manageability

Intel Standard Manageability

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

USB: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Finger: Lenovo USB Fingerprint Keyboard (USB connector)
2.4G: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

USB: Enhanced Optical USB Mouse, black, Lenovo logo
2.4G: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

Tiny (1L), business black color; metal case

M83 Tiny only	7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.9 lb (1.3 kg), weight may vary by configuration
M83 Tiny with VESA mount & optical box	7.2" W X 7.2" D X 2.6" H 184mm W X 182mm D X 65mm H 5.1 lb (2.3 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty[3]

Some: **3-years**, **limited onsite service** / service upgrades available
Some: **3-years**, **limited onsite service, IWS** (International Warranty Service[9]) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

Environment

ENERGY STAR® 6.0; EPEAT™ Gold rating (U.S.)
GREENGUARD®; RoHS-compliant; ErP Lot 3; UL Environment Gold; TUV; Cisco EnergyWise compatible

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M83 Small Pro, Mini Tower

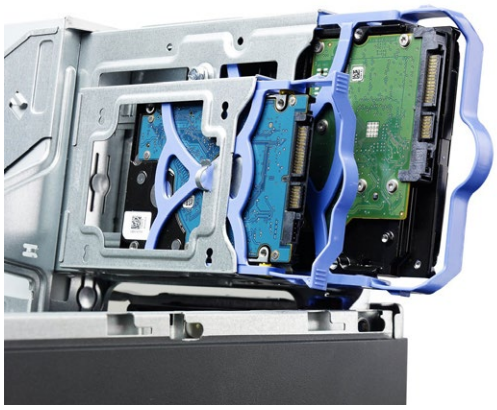
Lenovo ThinkCentre M83 Mini Tower
with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M83 Mini Tower
with optional WLAN and graphic card

Lenovo ThinkCentre M83 Small Pro
with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M83 Small Pro
with optional dual graphic cards
* Cable lock only available on some special bid models

Lenovo ThinkCentre M83 Small Pro
(inside view)



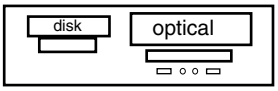
Optional 2.5" bay on
Lenovo ThinkCentre M83 Small Pro
* Come with optional 2.5" 2nd HDD

ThinkCentre M83 SFF Pro (10AM) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	2nd disk	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	Floor stand	ENERGY STAR 6.0	Preload	Ann date *(mm/dd/yy)*
10AM0002US	3x4	i5-4670	4GBx1	1TB 7200		None		HD 4600	USB	None	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AM0003US	3x4	i5-4570	4GBx1	500G 7200		None		HD 4600	None	None	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AM0004US	3x4	i7-4770	8GBx1	1TB 7200		Intel 105		GT 620	USB	Serial	Parallel	None	Stand	None	Win7 Pro64 (DG)	07/30/13
10AM0005US	3x4	i5-4570	8GBx1	1TB 7200		Intel 105		GT 620	USB	Serial	Parallel	None	Stand	None	Win7 Pro64 (DG)	07/30/13
10AM0006US	3x4	i7-4770	4GBx1	500G 7200		None		HD 4600	None	None	None	None	Stand	None	Win7 Pro64 (DG)	07/30/13
10AM0007US	3x4	i5-4570	4GBx1	500G 7200		None		HD 4600	None	None	None	None	Stand	None	Win7 Pro64 (DG)	07/30/13
10AM000AUS	3x4	i7-4770	4GBx1	1TB 7200		None		HD 4600	None	None	None	None	Stand	None	Win7 Pro64 (DG)	08/20/13
10AM000BUS	3x4	i5-4570	4GBx1	128G SSD	1TB	None	Media	HD 4600	None	None	None	None	Stand	None	Win7 Pro64 (DG)	08/20/13
10AM0009US	3x4	i3-4130	4GBx1	500G 7200		None		HD 4400	None	None	None	None	Stand	None	Win7 Pro64 (DG)	08/20/13
10AM000CUS	3x4	i3-4130	4GBx1	500G Hybrid		None		HD 4400	None	None	None	None	Stand	None	Win7 Pro64 (DG)	08/20/13

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 7200 rpm, 3.5" wide *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
2nd disk	*Some:* SATA 6.0Gb/s, 7200 rpm, 3.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	*Some:* 29-in-1 media reader, internal USB 2.0
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	240 watts, autosensing
Machine	• SFF Pro (12.9L), business black color; metal case • *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm • 17.20 lb (7.8 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced July 30, 2013 or August 20, 2013

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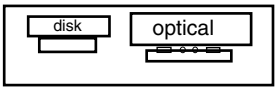
ThinkCentre M83 SFF Pro (10AM) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk	Optional 2.5" Bay	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	Floor stand	ENERGY STAR 6.0	Preload	Ann date *(mm/dd/yy)*
10AM000JUS	3x4	i3-4130	4GBx1	500G 3.5"	2.5" bay	None	None	HD 7450	USB	None	None	None	Stand	None	Win7 P64 DG Win8.1	02/04/14
10AM000KUS	3x4	i5-4570	4GBx1	500G 3.5"	2.5" bay	None	None	HD 7450	USB	None	None	None	Stand	None	Win7 P64 DG Win8.1	02/04/14
10AM000LUS	3x4	i7-4770	4GBx1	500G 3.5"	2.5" bay	None	None	HD 7450	USB	None	None	None	Stand	None	Win7 P64 DG Win8.1	02/04/14
10AM000MUS	3x4	i7-4770	8GBx1	1TB Hybrid	2.5" bay	None	None	HD 7450	USB	None	None	None	Stand	None	Win7 P64 DG Win8.1	02/04/14
10AM000NUS	3x4	G3220	4GBx1	500G 3.5"	2.5" bay	None	None	HD 7450	USB	None	None	None	Stand	None	Win7 P64 DG Win8.1	02/04/14
10AM000PUS	3x4	i3-4130	4GBx1	500G 2.5"	2.5" bay	None	None	HD 4400	None	None	None	None	None	None	Win7 P64 DG Win8.1	02/25/14
10AM000QUS	3x4	i5-4570	4GBx1	500G 2.5"	2.5" bay	None	None	HD 4600	None	None	None	None	None	None	Win7 P64 DG Win8.1	02/25/14
10AM000RUS	3x4	i5-4670	4GBx1	1TB 3.5"	2.5" bay	None	None	HD 4600	None	None	None	None	None	None	Win7 P64 DG Win8.1	02/25/14
10AM000SUS	3x4	i7-4770	4GBx1	1TB 3.5"	2.5" bay	None	None	HD 4600	None	None	None	None	None	None	Win7 P64 DG Win8.1	02/25/14
10AM000TUS	3x4	i3-4130	4GBx1	500G 3.5"	2.5" bay	None	None	HD 4400	None	None	None	None	Stand	None	Win7 P64 DG Win8.1	04/01/14

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 7200 rpm, 2.5" wide *Some:* SATA 6.0Gb/s, 7200 rpm, 3.5" wide *Some:* 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	240 watts, autosensing
Machine	• SFF Pro (12.9L), business black color; metal case • *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm • 17.20 lb (7.8 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

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- Password Manager

Preloaded applications (only some listed)

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- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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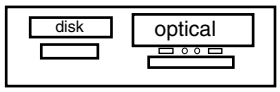
ThinkCentre M83 SFF Pro (10AM) - TopSeller - III

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk	Optional 2.5" Bay	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	Floor stand	ENERGY STAR 6.0	Preload	Ann date *(mm/dd/yy)*
10AM000VUS	3x4	i5-4590	4GBx1	500G 2.5"	2.5" bay	None	None	HD 4600	None	None	None	None	Stand	None	Win7 P64 DG Win8.1	02/10/15
10AM000YUS	3x4	i5-4690	4GBx1	1TB 3.5"	2.5" bay	None	None	HD 4600	None	None	None	None	Stand	None	Win7 P64 DG Win8.1	02/10/15
10AM000UUS	3x4	i7-4790	4GBx1	1TB 3.5"	2.5" bay	None	None	HD 4600	None	None	None	None	Stand	None	Win7 P64 DG Win8.1	02/10/15
10AM000WUS	3x4	i3-4150	4GBx1	500G 2.5"	2.5" bay	None	None	HD 4400	None	None	None	None	Stand	None	Win7 P64 DG Win8.1	02/10/15
10AM000XUS	3x4	i5-4590	4GBx1	180G SSD opal	2.5" bay	None	None	HD 4600	None	None	None	None	Stand	None	Win7 P64 DG Win8.1	02/10/15

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i3-4150 Processor** (**2 cores / 4 threads**, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4590 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4690 Processor** (**4 cores / 4 threads**, 3.5GHz, 6MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4790 Processor** (**4 cores / 8 threads**, 3.6GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 7200 rpm, 2.5" wide *Some:* SATA 6.0Gb/s, 7200 rpm, 3.5" wide *Some:* 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	240 watts, autosensing
Machine	• SFF Pro (12.9L), business black color; metal case • *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm • 17.20 lb (7.8 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
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- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

ULE Gold
Cisco EnergyWise compatible
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RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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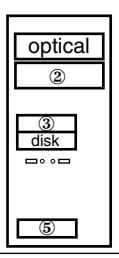
ThinkCentre M83 Mini Tower (10AL) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	ENERGY STAR 6.0	Preload	Ann date *(mm/dd/yy)*
10AL0008US	3x5	i5-4670	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	USB	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AL0009US	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AL000AUS	3x5	i7-4770	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	USB	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AL000BUS	3x5	i5-4670	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	USB	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AL000CUS	3x5	i5-4670	4GBx2	1TB 7200	DVD±RW	None	None	HD 4600	USB	Serial	Parallel	None	None	Win7 Pro64 (DG)	07/30/13
10AL000DUS	3x5	i5-4670	4GBx1	500GB 7200	DVD±RW	None	None	HD 8470	USB	Serial	Parallel	None	None	Win7 Pro64 (DG)	07/30/13
10AL000EUS	3x5	i7-4770	4GBx2	1TB 7200	DVD±RW	None	None	GT 620	USB	Serial	Parallel	None	None	Win7 Pro64 (DG)	07/30/13
10AL000FUS	3x5	i7-4770	4GBx2	500GB 7200	DVD±RW	None	None	HD 8570	USB	Serial	Parallel	None	None	Win7 Pro64 (DG)	07/30/13
10AL000GUS	3x5	i7-4770	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 Pro64 (DG)	08/20/13

● *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 8470**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz *Some:* **AMD Radeon HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing
Machine	● Mini Tower (25L), business black color, metal case ● *(WxDxH)* 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm ● 24.69 lb (11.20 kg) in maximum configuration ● Toolless cover removal, adapter retention ● Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

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Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced July 30, 2013 or August 20, 2013

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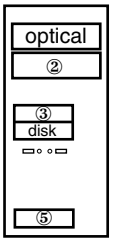
ThinkCentre M83 Mini Tower (10AL) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[6]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	ENERGY STAR 6.0	Preload	Ann date *(mm/dd/yy)*
10AL000QUS	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	None	HD 7450	USB	None	None	None	None	Win7 P64 DG Win8.1	02/04/14
10AL000RUS	3x5	i7-4770	8GBx1	500GB 7200	DVD±RW	None	None	HD 7450	USB	None	None	None	None	Win7 P64 DG Win8.1	02/04/14
10AL000SUS	3x5	i7-4770	8GBx1	1TB 7200	DVD±RW	None	None	HD 7450	USB	None	None	None	None	Win7 P64 DG Win8.1	02/04/14
10AL000TUS	3x5	i7-4770	8GBx1	1TB Hybrid	DVD±RW	None	None	HD 7450	USB	None	None	None	None	Win7 P64 DG Win8.1	02/04/14
10AL000UUS	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	02/25/14
10AL000VUS	3x5	i7-4770	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	02/25/14

●*Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 3.5" wide *Some:* 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing
Machine	• Mini Tower (25L), business black color, metal case • *(WxDxH)* 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm • 24.69 lb (11.20 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced February 4, 2014 or February 25, 2014

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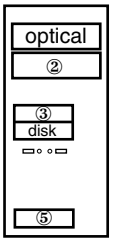
ThinkCentre M83 Mini Tower (10AL) - TopSeller - III

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	ENERGY STAR 6.0	Preload	Ann date *(mm/yy)*
10AL0014US	3x5	i7-4790	4GBx1	500GB 7200	DVD±RW	None	None	HD 7450	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10AL0017US	3x5	G3240	4GBx1	500GB 7200	DVD±RW	None	None	Intel HD	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10AL000XUS	3x5	i5-4590	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10AL0013US	3x5	i7-4790	8GBx1	256G SSD	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10AL000YUS	3x5	i5-4590	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10AL0016US	3x5	i3-4150	4GBx1	1TB 7200	DVD±RW	None	None	HD 4400	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10AL0012US	3x5	i7-4790	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10AL0010US	3x5	i5-4590	8GBx1	256G SSD	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10AL0015US	3x5	i3-4150	4GBx1	500GB 7200	DVD±RW	None	None	HD 4400	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10AL0011US	3x5	i7-4790	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	10/14

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Pentium® G3240 Processor** (**2 cores / 2 threads**, 3.1GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4150 Processor** (**2 cores / 4 threads**, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4590 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4790 Processor** (**4 cores / 8 threads**, 3.6GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 3.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing
Machine	• Mini Tower (25L), business black color, metal case • *(WxDxH)* 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm • 24.69 lb (11.20 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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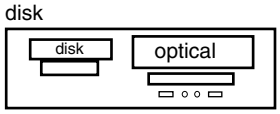
ThinkCentre M83 SFF Pro (10AN)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	Floor stand	ENERGY STAR 6.0	Preload	Ann date *(mm/dd/yy)*
10AN0006US	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	Reader	HD 8470	None	None	None	None	Stand	None	Win7 Pro64 (DG)	07/30/13
10AN000GUS	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	USB	None	None	None	Stand	None	Win7 Pro64 (DG)	08/27/13
10AN000HUS	3x4	i7-4770	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	USB	None	None	None	Stand	None	Win7 Pro64 (DG)	08/27/13
10AN000JUS	3x4	i7-4770	8GBx1	1TB 7200	DVD±RW	None	None	HD 4600	USB	None	None	None	Stand	None	Win7 Pro64 (DG)	08/27/13
10AN000KUS	3x4	i5-4570	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	USB	None	None	None	Stand	None	Win7 Pro64 (DG)	08/27/13
10AN000XUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	USB	None	None	None	Stand	None	Win7 Pro64 (DG)	10/22/13
10AN000YUS	3x4	i3-4130	8GBx1	1TB Hybrid	DVD±RW	None	None	HD 8570	USB	None	None	None	Stand	None	Win7 Pro64 (DG)	10/22/13

- *3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 8470**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz *Some:* **AMD Radeon HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 3.5" wide *Some:* 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	*Some:* 29-in-1 media reader, internal USB 2.0
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	240 watts, autosensing
Machine	• SFF Pro (12.9L), business black color; metal case • *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm • 17.20 lb (7.8 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

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- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
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- Power-on password
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- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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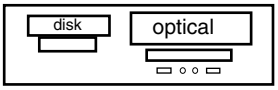
US model(s) announced July 30, 2013, August 27, 2013, or October 22, 2013

ThinkCentre M83 SFF Pro (10AH) - ES 6.0

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	Optional 2.5" Bay	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Floor stand	Internal Speaker	ENERGY STAR 6.0	Preload	Ann date *(mm/yy)*
10AH000JUS	3x4	i5-4570	4GBx1	1TB 7200	DVD		Intel 105	None	HD 8470	USB	None	Switch	Stand	Speaker	ES6.0	Win7 Pro64	07/13
10AH0042US	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	2.5" bay	None	None	HD 7450	USB	None	None	Stand	Speaker	ES6.0	Win7 P64 DG Win8.1	02/14
10AH006HUS	3x4	i5-4590	4GBx1	500G 7200	DVD±RW	2.5" bay	7260 b/g/n	None	HD 8570	None	None	None	None	Speaker	ES6.0	Win7 P64 DG Win8.1	10/14
10AH006JUS	3x4	i7-4790	8GBx1	1TB 7200	DVD±RW	2.5" bay	7260 b/g/n	None	HD 4600	None	None	None	None	None	ES6.0	Win7 P64 DG Win8.1	10/14
10AH006KUS	3x4	i7-4790	8GBx1	1TB 7200	DVD±RW	2.5" bay	7260 ac	None	GT 620	None	None	None	None	None	ES6.0	Win7 P64 DG Win8.1	10/14
10AH006BUS	3x4	i3-4150	4GBx1	500G 7200	DVD±RW	2.5" bay	None	None	HD 4400	None	None	None	None	Speaker	ES6.0	Win7 P64 DG Win8.1	10/14
10AH006DUS	3x4	i3-4150	8GBx1	256G SSD	DVD±RW	2.5" bay	7260 b/g/n	None	HD 4400	None	None	None	None	Speaker	ES6.0	Win7 P64 DG Win8.1	10/14
10AH006FUS	3x4	i5-4590	8GBx1	256G SSD	DVD±RW	2.5" bay	7260 b/g/n	None	HD 4600	None	None	None	None	Speaker	ES6.0	Win7 P64 DG Win8.1	10/14
10AH006EUS	3x4	i5-4590	4GBx1	500G 7200	DVD±RW	2.5" bay	None	None	HD 4600	None	None	None	None	Speaker	ES6.0	Win7 P64 DG Win8.1	10/14
10AH006CUS	3x4	i3-4150	4GBx1	1TB 7200	DVD±RW	2.5" bay	7260 b/g/n	None	HD 4400	None	None	None	None	Speaker	ES6.0	Win7 P64 DG Win8.1	10/14
10AH006GUS	3x4	i7-4790	4GBx1	500G 7200	DVD±RW	2.5" bay	7260 b/g/n	None	HD 4600	None	None	None	None	None	ES6.0	Win7 P64 DG Win8.1	10/14

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i3-4150 Processor** (**2 cores / 4 threads**, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller, **Intel Core i5-4590 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4790 Processor** (**4 cores / 8 threads**, 3.6GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 3.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide
Optical	*Some:* DVD-ROM DL SATA 1.5Gb/s 16-48X Max[4] Drive *Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, mic (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	*Some:* 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2 *Some:* 11b/g/n, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + BT 4.0 combo, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Optional internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	• SFF Pro (12.9L), business black color; metal case • *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm • 17.20 lb (7.8 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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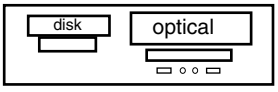
ThinkCentre M83 SFF Pro (10AH) - ES 6.0 (GMP)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Floor stand	ENERGY STAR 6.0	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10AH0015US	3x4	i5-4570	2GBx1	500G 3.5"	DVD	None	HD 4600	None	None	Switch	None	ES6.0	G P	Win7 Pro64	07/30/13
10AH0016US	3x4	i5-4570	4GBx1	500G 3.5"	DVD	None	HD 4600	USB	None	Switch	Stand	ES6.0	G P	Win7 Pro64 (DG)	07/30/13
10AH0017US	3x4	i5-4570	4GBx1	1TB 3.5"	DVD	Intel 105	HD 8470	USB	None	Switch	Stand	ES6.0	G P	Win7 Pro64 (DG)	07/30/13
10AH001HUS	3x4	i5-4570	4GBx1	500G 3.5"	DVD±RW	None	HD 4600	USB	None	Switch	Stand	ES6.0	G P	Win7 Pro64 (DG)	08/20/13
10AH001JUS	3x4	i5-4570	4GBx1	1TB 3.5"	DVD±RW	Intel 105	HD 8470	USB	None	Switch	Stand	ES6.0	G P	Win7 Pro64 (DG)	08/20/13
10AH0043US	3x4	i5-4570	2GBx1	500G 2.5"	DVD	None	HD 4600	None	None	Switch	None	ES6.0	G P	Win7 Pro64	03/11/14
10AH0054US	3x4	i5-4590	2GBx1	500G 2.5"	DVD	None	HD 4600	None	None	Switch	None	ES6.0	G P	Win7 Pro64	06/10/14
10AH005XUS	3x4	i5-4590	4GBx1	500G 3.5"	DVD±RW	None	HD 4600	USB	None	Switch	Stand	ES6.0	G P	Win7 P64 DG Win8.1	07/08/14
10AH005YUS	3x4	i5-4590	4GBx1	1TB 3.5"	DVD±RW	8723BE	GT 620	None	None	Switch	Stand	ES6.0	G P	Win7 P64 DG Win8.1	07/08/14

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4590 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 8470**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 2.5" wide *Some:* SATA 6.0Gb/s 7200 rpm, 3.5" wide
Optical	*Some:* DVD-ROM DL SATA 1.5Gb/s 16-48X Max[4] Drive *Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi/BT 4.0, 1x1
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	• SFF Pro (12.9L), business black color; metal case • *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm • 17.20 lb (7.8 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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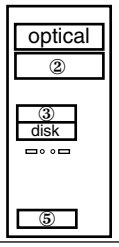
ThinkCentre M83 Mini Tower (10AK)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	ENERGY STAR 6.0	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10AK0004US	3x5	i5-4570	8GBx1	500GB 7200	DVD±RW	None	None	GT 620	USB	None	None	None	None	Win7 P64 DG Win8	07/30/13
10AK0005US	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8	07/30/13
10AK0006US	3x5	i7-4770	8GBx1	500GB 7200	DVD±RW	None	None	GT 620	USB	None	None	None	None	Win7 P64 DG Win8	07/30/13
10AK0007US	3x5	i7-4770	8GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8	07/30/13
10AK000LUS	3x5	i3-4130	4GBx1	500GB 7200	DVD±RW	None	None	HD 4400	USB	None	None	None	None	Win7 P64 DG Win8	10/22/13
10AK000MUS	3x5	i3-4130	8GBx1	1TB Hybrid	DVD±RW	None	None	HD 8570	USB	None	None	None	None	Win7 P64 DG Win8	10/22/13
10AK000QUS	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	None	HD 7450	USB	None	None	None	None	Win7 P64 DG Win8.1	02/04/14

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller, **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller,
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz *Some:* **AMD Radeon HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 3.5" wide *Some:* 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing
Machine	• Mini Tower (25L), business black color, metal case • *(WxDxH)* 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm • 24.69 lb (11.20 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced July 30, 2013, October 22, 2013, or February 4, 2014

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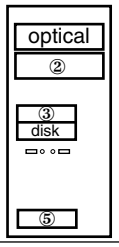
ThinkCentre M83 Mini Tower (10AK) - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	ENERGY STAR 6.0	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10AK0012US	3x5	i3-4150	4GBx1	500GB 7200	DVD±RW	None	None	HD 4400	None	None	None	None	None	Win7 P64 DG Win8.1	10/14/14
10AK0013US	3x5	i3-4150	4GBx1	1TB 7200	DVD±RW	None	None	HD 4400	None	None	None	None	None	Win7 P64 DG Win8.1	10/14/14
10AK0015US	3x5	i5-4590	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	10/14/14
10AK0016US	3x5	i5-4590	8GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	10/14/14
10AK0019US	3x5	i7-4790	8GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	10/14/14
10AK0017US	3x5	i5-4590	4GBx1	256G SSD	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	10/14/14
10AK0018US	3x5	i7-4790	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	10/14/14

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller, **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller,
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz *Some:* **AMD Radeon HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 3.5" wide *Some:* 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing
Machine	• Mini Tower (25L), business black color, metal case • *(WxDxH)* 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm • 24.69 lb (11.20 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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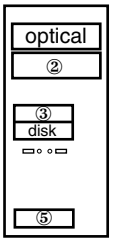
ThinkCentre M83 Mini Tower (10AG) - ES 6.0

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	ENERGY STAR 6.0	Global	Preload	Ann date *(mm/dd/yy)*
10AG0012US	3x5	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	USB	None	None	ES6.0	None	Win7 P64 DG Win8.1	02/04/14
10AG001NUS	3x5	i5-4590	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	ES6.0	None	Win7 P64 DG Win8.1	10/14/14
10AG002BUS	3x5	i5-4590	8GBx1	256G SSD	DVD±RW	None	None	HD 4600	None	None	None	ES6.0	None	Win7 P64 DG Win8.1	10/14/14
10AG002AUS	3x5	i5-4590	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	ES6.0	None	Win7 P64 DG Win8.1	10/14/14
10AG0029US	3x5	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	None	None	None	ES6.0	None	Win7 P64 DG Win8.1	10/14/14
10AG0026US	3x5	i7-4790	8GBx1	256G SSD	DVD±RW	None	None	HD 4600	None	None	None	ES6.0	None	Win7 P64 DG Win8.1	10/14/14
10AG0025US	3x5	i7-4790	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	ES6.0	None	Win7 P64 DG Win8.1	10/14/14
10AG0028US	3x5	i3-4150	4GBx1	1TB 7200	DVD±RW	None	None	HD 4400	None	None	None	ES6.0	None	Win7 P64 DG Win8.1	10/14/14
10AG0027US	3x5	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	None	ES6.0	None	Win7 P64 DG Win8.1	10/14/14
10AG0024US	3x5	i7-4790	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	ES6.0	None	Win7 P64 DG Win8.1	10/14/14

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i3-4150 Processor** (**2 cores / 4 threads**, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4590 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4790 Processor** (**4 cores / 8 threads**, 3.6GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	• Mini Tower (25L), business black color, metal case • *(WxDxH)* 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm • 24.69 lb (11.20 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage by SugarSync
- Desktop Power Manager
- Norton™ Studio
- AccuWeather
- Evernote®
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- ThinkVantage System Update
- Lenovo Solution Center
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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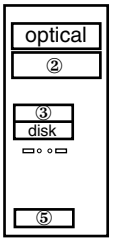
ThinkCentre M83 Mini Tower (10AG) - ES 6.0 (Windows 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	ENERGY STAR 6.0	Global	Preload	Ann date *(mm/dd/yy)*
10AG000CUS	3x5	i5-4570	4GBx1	1TB 7200	DVD	Intel 105	None	HD 8470	USB	None	Switch	ES6.0	None	Win8 Pro64	07/30/13

●*3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 8470**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide
Optical	DVD-ROM DL SATA 1.5Gb/s 16-48X Max[4] Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	● Mini Tower (25L), business black color, metal case ● *(WxDxH)* 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm ● 24.69 lb (11.20 kg) in maximum configuration ● Toolless cover removal, adapter retention ● Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 8 Pro 64-bit

Ready to install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage by SugarSync
- Desktop Power Manager
- Norton™ Studio
- AccuWeather
- Evernote®
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- ThinkVantage System Update
- Lenovo Solution Center
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object: -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 30, 2013

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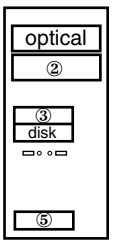
ThinkCentre M83 Mini Tower (10AG) - ES 6.0 (GMP)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[6]	SATA disk GB rpm	SATA optical	PCIe WLAN	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Key-board	ENERGY STAR 6.0	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10AG000PUS	3x5	i5-4570	4GBx1	1TB 7200	DVD	Intel 105	HD 8470	USB	None	Switch	USB	ES6.0	G P	Win7 Pro64 (DG)	07/30/13
10AG000QUS	3x5	i5-4570	2GBx1	500GB 7200	DVD	None	HD 4600	None	None	Switch	USB	ES6.0	G P	Win7 Pro64	07/30/13
10AG000RUS	3x5	i5-4570	4GBx1	500GB 7200	DVD	None	HD 4600	USB	None	Switch	USB	ES6.0	G P	Win7 Pro64 (DG)	07/30/13
10AG000SUS	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	HD 4600	USB	None	Switch	Finger	ES6.0	G P	Win7 Pro64 (DG)	08/20/13
10AG000TUS	3x5	i5-4570	4GBx1	1TB 7200	DVD±RW	Intel 105	HD 8470	USB	None	Switch	USB	ES6.0	G P	Win7 Pro64 (DG)	08/20/13
10AG000UUS	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	HD 4600	USB	None	Switch	USB	ES6.0	G P	Win7 Pro64 (DG)	09/10/13
10AG001KUS	3x5	i5-4590	2GBx1	500GB 7200	DVD	None	HD 4600	None	None	Switch	USB	ES6.0	G P	Win7 Pro64	06/10/14
10AG001PUS	3x5	i5-4590	4GBx1	500GB 7200	DVD±RW	None	HD 4600	USB	None	Switch	USB	ES6.0	G P	Win7 P64 DG Win 8.1	07/08/14
10AG001QUS	3x5	i5-4590	4GBx1	1TB 7200	DVD±RW	8723BE	GT 620	None	None	Switch	USB	ES6.0	G P	Win7 P64 DG Win 8.1	07/08/14

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4590 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 8470**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide
Optical	*Some:* DVD-ROM DL SATA 1.5Gb/s 16-48X Max[4] Drive *Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi/BT 4.0, 1x1
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo *Some:* Lenovo USB Fingerprint Keyboard (USB connector)
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	• Mini Tower (25L), business black color, metal case • *(WxDxH)* 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm • 24.69 lb (11.20 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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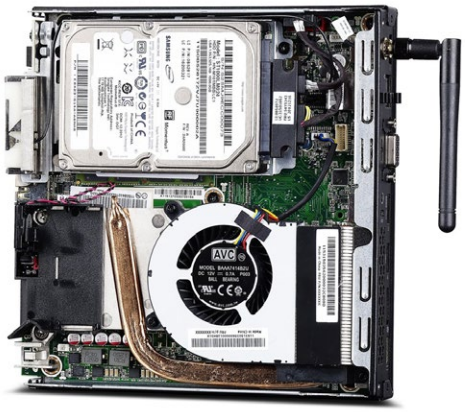
Lenovo ThinkCentre M93/M93p Tiny
with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M93/M93p Tiny
with optional WLAN

Lenovo ThinkCentre M93/M93p Tiny
with optional external I/O box

Lenovo ThinkCentre M93/M93p Tiny
with optional external optical box



Lenovo ThinkCentre M93/M93p Tiny
(inside view)

Lenovo ThinkCentre M93/M93p Tiny

Lenovo ThinkCentre M93/M93p Mini Tower
with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M93/M93p Mini Tower
with optional WLAN and graphic card

Lenovo ThinkCentre M93/M93p Small Pro
with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M93/M93p Small Pro
with optional dual graphic cards
* Cable lock only available on some special bid models

Lenovo ThinkCentre M93/M93p Small Pro
(inside view)

Optional 2.5" bay on
Lenovo ThinkCentre M93/M93p Small Pro
* Come with optional 2.5" 2nd HDD

ThinkCentre M93p Tiny (10AB) - TopSeller I

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10AB000DUS	i5-4570T	4GBx1	500G Hybrid	None	HD 4600	Intel 105	2nd DP	None	None	None	USB	vPro*	Win7 Pro64 (DG)	07/02/13
10AB000EUS	i5-4570T	4GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 105	2nd DP	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000FUS	i7-4765T	8GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 105	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000GUS	i7-4765T	4GBx2	180G SSD	DVD±RW	HD 4600	Intel 6235	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000HUS	i7-4765T	4GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 105	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000JUS	i5-4570T	4GBx2	180G SSD	DVD±RW	HD 4600	Intel 6235	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000KUS	i5-4570T	4GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 105	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000QUS	i7-4765T	4GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 2230	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000RUS	i5-4570T	4GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 2230	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570T Processor** (**2 cores / 4 threads**, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-4765T Processor** (**4 cores / 8 threads**, 2.0GHz, 8MB cache), Turbo Boost 2.0 (3.0GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, Intel vPro technology support, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Machine	• Tiny (1L), business black color; metal case • *M93/p Tiny only:* 7.0" W X 7.2" D X 1.4" H • *M93/p Tiny only:* 179mm W X 182mm D X 34.5mm H • *M93/p Tiny only:* 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H • *With VESA mount & optical box:* 184mm W X 182mm D X 65mm H • *With VESA mount & optical box:* 5.1 lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 2, 2013

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ThinkCentre M93p Tiny (10AB) - TopSeller II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10AB000SUS	i7-4765T	4GBx1	500G Hybrid	I/O box	HD 4600	Intel 105	HDMI	None	None	Mount	USB	vPro*	Win7 Pro64 (DG)	07/02/13
10AB000TUS	i5-4570T	4GBx1	500G Hybrid	I/O box	HD 4600	Intel 105	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000UUS	i5-4570T	4GBx1	500G Hybrid	I/O box	HD 4600	None	None	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB0010US	i5-4570T	4GBx1	500G 7200	None	HD 4600	Intel 105	2nd DP	None	Stand	None	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB0011US	i7-4765T	8GBx1	128G SSD	DVD±RW	HD 4600	Intel 6235	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB0012US	i7-4765T	4GBx1	128G SSD	DVD±RW	HD 4600	Intel 2230	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB0013US	i5-4570T	4GBx1	500G 7200	DVD±RW	HD 4600	Intel 105	2nd DP	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB0014US	i5-4570T	4GBx1	500G 7200	I/O box	HD 4600	Intel 105	2nd DP	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB0015US	i5-4570T	4GBx1	500G 7200	DVD±RW	HD 4600	Intel 2230	2nd DP	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB0016US	i5-4570T	4GBx1	500G 7200	None	HD 4600	Intel 105	Serial	None	Stand	None	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB002AUS	i5-4570T	4GBx1	128G SSD	None	HD 4600	Intel 2230	2nd DP	None	Stand	None	USB	vPro	Win7 Pro64 (DG)	12/10/13

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570T Processor** (**2 cores / 4 threads**, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-4765T Processor** (**4 cores / 8 threads**, 2.0GHz, 8MB cache), Turbo Boost 2.0 (3.0GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 2.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, Intel vPro technology support, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Machine	• Tiny (1L), business black color; metal case • *M93p Tiny only:* 7.0" W X 7.2" D X 1.4" H • *M93p Tiny only:* 179mm W X 182mm D X 34.5mm H • *M93p Tiny only:* 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H • *With VESA mount & optical box:* 184mm W X 182mm D X 65mm H • *With VESA mount & optical box:* 5.1 lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 2, 2013 or December 10, 2013

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ThinkCentre M93p Tiny (10AB) - TopSeller III

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe WLAN	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10AB002TUS	i7-4765T	4GBx1	500G 7200	None	HD 4600	7260 ac	HDMI	None	Stand	None	USB	vPro*	Win7 P64 DG Win8.1	01/14/14
10AB002VUS	i5-4570T	4GBx1	500G 7200	None	HD 4600	7260 bn	2nd DP	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	01/14/14
10AB002WUS	i7-4765T	8GBx1	128G SSD	None	HD 4600	7260 ac	2nd DP	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	01/14/14
10AB002UUS	i5-4570T	4GBx1	500G 7200	None	HD 4600	7260 ac	HDMI	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	01/14/14
10AB002XUS	i5-4570T	4GBx1	500G Hybrid	DVD±RW	HD 4600	7260 bn	2nd DP	None	None	Mount	USB	vPro	Win7 P64 DG Win8.1	02/25/14
10AB002YUS	i7-4765T	4GBx1	500G Hybrid	DVD±RW	HD 4600	7260 bn	2nd DP	None	None	Mount	USB	vPro	Win7 P64 DG Win8.1	02/25/14
10AB0030US	i7-4765T	8GBx1	128G SSD	DVD±RW	HD 4600	7260 ac	2nd DP	None	None	Mount	USB	vPro	Win7 P64 DG Win8.1	02/25/14
10AB003JUS	i7-4765T	8GBx1	256G SSD OPAL	None	HD 4600	7260 ac	2nd DP	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	06/17/14
10AB003KUS	i5-4570T	4GBx1	256G SSD OPAL	None	HD 4600	7260 ac	2nd DP	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	06/17/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570T Processor** (**2 cores / 4 threads**, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4765T Processor** (**4 cores / 8 threads**, 2.0GHz, 8MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 2.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, Intel vPro technology support, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Machine	• Tiny (1L), business black color; metal case • *M93p Tiny only:* 7.0" W X 7.2" D X 1.4" H • *M93p Tiny only:* 179mm W X 182mm D X 34.5mm H • *M93p Tiny only:* 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H • *With VESA mount & optical box:* 184mm W X 182mm D X 65mm H • *With VESA mount & optical box:* 5.1 lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced January 14 or February 25, 2014

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ThinkCentre M93p Tiny (10AB) - TopSeller IV

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe WLAN	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10AB004AUS	I5-4590T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	None	None	Stand	None	USB	vPro*	Win7 P64 DG Win8.1	10/28/14
10AB004CUS	I5-4590T	4GBx1	500G 7200	None	HD 4600	7260 ac	2nd DP	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004MUS	I7-4785T	4GBx1	180G SSD	None	HD 4600	7260 b/g/n	USB	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004EUS	I5-4590T	4GBx1	180G SSD	None	HD 4600	7260 b/g/n	Serial	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004DUS	I5-4590T	8GBx1	256G SSD	None	HD 4600	7260 ac	2nd DP	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004QUS	I7-4785T	4GBx1	180G SSD	None	HD 4600	7260 b/g/n	2nd DP	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004NUS	I7-4785T	8GBx1	256G SSD	None	HD 4600	7260 b/g/n	2nd DP	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004KUS	I5-4590T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	USB	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004FUS	I5-4590T	4GBx1	180G SSD	None	HD 4600	7260 b/g/n	Serial	None	None	Mount	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004LUS	I7-4785T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	USB	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

●*Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core i5-4590T Processor** (**4 cores / 4 threads**, 2.0GHz, 6MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4785T Processor** (**4 cores / 8 threads**, 2.2GHz, 8MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 2.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, Intel vPro technology support, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Machine	● Tiny (1L), business black color; metal case ● *M93/p Tiny only:* 7.0" W X 7.2" D X 1.4" H ● *M93/p Tiny only:* 179mm W X 182mm D X 34.5mm H ● *M93/p Tiny only:* 2.9 lb (1.3 kg), weight may vary by configuration ● *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H ● *With VESA mount & optical box:* 184mm W X 182mm D X 65mm H ● *With VESA mount & optical box:* 5.1 lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M93p Tiny (10AB) - TopSeller V

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe WLAN	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10AB004TUS	I7-4785T	4GBx1	256G SSD	None	HD 4600	7260 b/g/n	2nd DP	None	None	Mount	USB	vPro*	Win7 P64 DG Win8.1	10/28/14
10AB004RUS	I7-4785T	4GBx1	180G SSD	None	HD 4600	7260 b/g/n	HDMI	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004SUS	I7-4785T	4GBx1	256G SSD	None	HD 4600	7260 b/g/n	HDMI	None	None	Mount	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004HUS	I5-4590T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	Serial	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004PUS	I7-4785T	4GBx1	180G SSD	None	HD 4600	7260 b/g/n	Serial	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004UUS	I7-4785T	8GBx1	180G SSD	None	HD 4600	7260 b/g/n	USB	None	None	Mount	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004JUS	I5-4590T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	HDMI	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004BUS	I5-4590T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	2nd DP	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004GUS	I5-4590T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	Serial	None	None	Mount	USB	vPro	Win7 P64 DG Win8.1	10/28/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core i5-4590T Processor** (**4 cores / 4 threads**, 2.0GHz, 6MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4785T Processor** (**4 cores / 8 threads**, 2.2GHz, 8MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 2.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, Intel vPro technology support, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Machine	• Tiny (1L), business black color; metal case • *M93p Tiny only:* 7.0" W X 7.2" D X 1.4" H • *M93p Tiny only:* 179mm W X 182mm D X 34.5mm H • *M93p Tiny only:* 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H • *With VESA mount & optical box:* 184mm W X 182mm D X 65mm H • *With VESA mount & optical box:* 5.1 lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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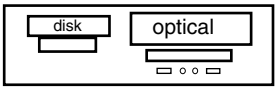
ThinkCentre M93p SFF Pro (10A9) - TopSeller - I

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	Floor stand	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10A9000HUS	4x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	HD 4600	None	None	None	None	None	vPro*	Win7 Pro64 (DG)	06/18/13
10A9000JUS	4x4	i5-4670	4GBx1	500G Hybrid	DVD±RW	None	HD 4600	USB	None	None	None	None	vPro	Win7 Pro64 (DG)	06/18/13
10A9000KUS	4x4	i7-4770	4GBx1	1TB 7200	DVD±RW	None	GT 620	USB	None	None	None	None	vPro	Win7 Pro64 (DG)	06/18/13
10A9000LUS	4x4	i7-4770	8GBx1	500G Hybrid	DVD±RW	None	GT 620	None	None	None	None	None	vPro	Win7 Pro64 (DG)	06/18/13
10A9000MUS	4x4	i7-4770	4GBx2	500G Hybrid	DVD±RW	None	GT 620	USB	Serial	None	None	Stand	vPro	Win7 Pro64 (DG)	06/18/13
10A90014US	4x4	i7-4770	8GBx1	1TB 7200	DVD±RW	105	GT 620	USB	Serial	Parallel	None	Stand	vPro	Win7 Pro64 (DG)	08/13/13

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-4670 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 3.5" wide *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	*Some:* System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	• SFF Pro (12.9L), business black color; metal case • *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm • 17.20 lb (7.8 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt, come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max) Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced June 18, 2013 or August 13, 2013

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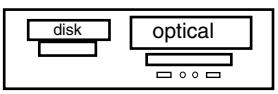
ThinkCentre M93p SFF Pro (10A9) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Floor stand	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10A9000NUS	4x4	i7-4770	4GBx1	1TB 7200	DVD±RW	None	None	HD 8470	USB	None	None	Stand	vPro*	Win7 Pro64 (DG)	06/18/13
10A9000PUS	4x4	i7-4770	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	Stand	vPro	Win7 Pro64 (DG)	06/18/13
10A9000QUS	4x4	i5-4670	4GBx2	500G Hybrid	DVD±RW	None	None	GT 620	USB	Serial	None	Stand	vPro	Win7 Pro64 (DG)	06/18/13
10A9000RUS	4x4	i5-4670	4GBx1	1TB 7200	DVD±RW	None	None	HD 8470	USB	None	None	Stand	vPro	Win7 Pro64 (DG)	06/18/13
10A9000SUS	4x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	Stand	vPro	Win7 Pro64 (DG)	06/18/13
10A90016US	4x4	i7-4770	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	Stand	vPro	Win7 Pro64 (DG)	10/08/13
10A90017US	4x4	i5-4570	4GBx1	128G SSD	DVD±RW	None	None	HD 4600	None	None	None	Stand	vPro	Win7 Pro64 (DG)	10/08/13
10A9002CUS	4x4	i5-4670	4GBx1	500G Hybrid	DVD±RW	None	None	GT 620	None	None	None	Stand	vPro	Win7 Pro64 (DG)	12/10/13

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 8470**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz, *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz,
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 3.5" wide *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	• SFF Pro (12.9L), business black color; metal case • *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm • 17.20 lb (7.8 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt, come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max) Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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US model(s) announced June 18, 2013, October 8, 2013, or December 10, 2013

(MSS1S-4) December 2013

ThinkCentre M93p SFF Pro (10A9) - TopSeller - III

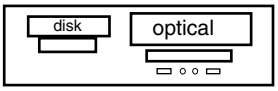
Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	Optional 2.5" Bay	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Floor stand	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10A9002TUS	4x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	None	HD 7450	USB	None	None	Stand	vPro*	Win7 P64 DG Win8.1	02/04/14
10A9002UUS	4x4	i7-4770	8GBx1	500G 7200	DVD±RW	None	None	None	HD 7450	USB	None	None	Stand	vPro	Win7 P64 DG Win8.1	02/04/14
10A9002VUS	4x4	i7-4770	8GBx1	1TB 7200	DVD±RW	None	None	None	HD 7450	USB	None	None	Stand	vPro	Win7 P64 DG Win8.1	02/04/14
10A9002WUS	4x4	i5-4670	4GBx1	1TB 7200	DVD±RW	2.5" bay	None	None	HD 7450	USB	None	None	Stand	vPro	Win7 P64 DG Win8.1	02/11/14
10A90034US	4x4	i5-4570	4GBx1	500G 7200	DVD±RW	2.5" bay	None	None	HD 8570	None	None	None	Stand	vPro	Win7 P64 DG Win8.1	03/25/14
10A9003TUS	4x4	i7-4770	8GBx1	256G SSD OPAL	DVD±RW	2.5" bay	None	None	HD 7450	USB	None	None	Stand	vPro	Win7 P64 DG Win8.1	06/17/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

● *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz *Some:* **AMD Radeon HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz,
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 3.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	● SFF Pro (12.9L), business black color; metal case ● *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm ● 17.20 lb (7.8 kg) in maximum configuration ● Toolless cover removal, adapter retention ● Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt, come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max) Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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(MSS1S-5) June 2014

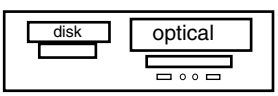
ThinkCentre M93p SFF Pro (10A9) - TopSeller - IV

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	Optional 2.5" Bay	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Floor stand	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10A90049US	4x4	i7-4790	8GBx1	256G SSD	DVD±RW	2.5" bay	7260 b/g/n	None	HD 4600	None	None	None	None	vPro*	Win7 P64 DG Win8.1	10/28/14
10A90045US	4x4	i5-4590	4GBx1	500G 7200	DVD±RW	None	None	None	HD 4600	None	None	None	None	vPro	Win7 P64 DG Win8.1	10/28/14
10A9004CUS	4x4	i5-4590	4GBx1	1TB 7200	DVD±RW	2.5" bay	7260 b/g/n	None	HD 4600	None	None	None	None	vPro	Win7 P64 DG Win8.1	10/28/14
10A90048US	4x4	i7-4790	8GBx1	1TB 7200	DVD±RW	2.5" bay	7260 b/g/n	None	GT 620	None	None	None	None	vPro	Win7 P64 DG Win8.1	10/28/14
10A90046US	4x4	i5-4590	4GBx1	1TB 7200	DVD±RW	None	None	None	HD 4600	None	None	None	None	vPro	Win7 P64 DG Win8.1	10/28/14
10A9004AUS	4x4	i5-4590	4GBx1	500G 7200	DVD±RW	2.5" bay	None	None	HD 4600	None	None	None	None	vPro	Win7 P64 DG Win8.1	10/28/14
10A90047US	4x4	i7-4790	4GBx1	1TB 7200	DVD±RW	2.5" bay	None	None	HD 4600	None	None	None	None	vPro	Win7 P64 DG Win8.1	10/28/14
10A9004BUS	4x4	i5-4590	4GBx1	1TB 7200	DVD±RW	2.5" bay	None	None	HD 4600	None	None	None	None	vPro	Win7 P64 DG Win8.1	10/28/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4590 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4790 Processor** (**4 cores / 8 threads**, 3.6GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 3.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + BT 4.0 combo, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	• SFF Pro (12.9L), business black color; metal case • *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm • 17.20 lb (7.8 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt, come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max) Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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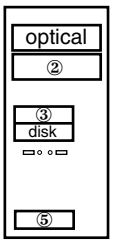
ThinkCentre M93p Mini Tower (10A7) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	Intel vPro	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10A7000BUS	4x5	i5-4570	4Gx1	500G 7200	DVD±RW	None	HD 4600	None	None	None	None	vPro*	None	Win7 Pro64 (DG)	06/18/13
10A7000CUS	4x5	i5-4670	4Gx1	500G Hybrid	DVD±RW	None	HD 4600	None	None	None	None	vPro	None	Win7 Pro64 (DG)	06/18/13
10A7000DUS	4x5	i7-4770	4Gx1	1TB 7200	DVD±RW	None	HD 8570	None	None	None	None	vPro	None	Win7 Pro64 (DG)	06/18/13
10A7000EUS	4x5	i7-4770	4Gx2	500G Hybrid	DVD±RW	Media	HD 8570	None	Serial	Parallel	None	vPro	None	Win7 Pro64 (DG)	06/18/13
10A7000FUS	4x5	i7-4770	4Gx1	500G 7200	DVD±RW	None	HD 4600	None	None	None	None	vPro	None	Win7 Pro64 (DG)	06/18/13
10A7000GUS	4x5	i5-4670	4Gx2	500G Hybrid	DVD±RW	None	GT 620	USB	Serial	None	None	vPro	None	Win7 Pro64 (DG)	06/18/13
10A7000QUS	4x5	i7-4770	8Gx1	1TB 7200	DVD±RW	None	GT 620	None	None	None	None	vPro	None	Win7 Pro64 (DG)	07/09/13
10A7000SUS	4x5	i7-4770	4Gx1	1TB 7200	DVD±RW	None	HD 4600	None	None	None	None	vPro	None	Win7 Pro64 (DG)	10/08/13
10A7000TUS	4x5	i5-4570	4Gx1	128G SSD	DVD±RW	None	HD 4600	None	None	None	None	vPro	None	Win7 Pro64 (DG)	10/08/13
10A7000UUS	4x5	i7-4770	8Gx1	180G SSD	DVD±RW	None	HD 4600	None	None	None	None	vPro	None	Win7 Pro64 (DG)	10/08/13

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 3.5" wide *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	*Some:* 29-in-1 media reader, internal USB 2.0
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	• Mini Tower (25L), business black color, metal case • *(WxDxH)* 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm • 24.69 lb (11.20 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max) Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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US model(s) announced June 18, 2013, July 9, 2013, or October 8, 2013

(MSS1T-3) October 2013

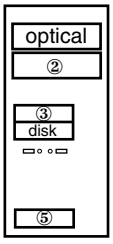
ThinkCentre M93p Mini Tower (10A7) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Proces-sor	Memory[8]	SATA disk GB rpm	SATA optical	WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	Intel vPro	Global (G) GMP (P)	Preload	Ann date *(mm/yy)*
10A70028US	4x5	i5-4570	4Gx1	500G 7200	DVD±RW	None	None	HD 7450	USB	None	None	None	vPro*	None	Win7 P64 DG Win8.1	02/14
10A70029US	4x5	i7-4770	8Gx1	500G 7200	DVD±RW	None	None	HD 7450	USB	None	None	None	vPro	None	Win7 P64 DG Win8.1	02/14
10A7002AUS	4x5	i7-4770	8Gx1	1TB 7200	DVD±RW	None	None	HD 7450	USB	None	None	None	vPro	None	Win7 P64 DG Win8.1	02/14
10A7003CUS	4x5	i7-4770	8Gx1	256G SSD OPAL	DVD±RW	None	None	HD 7450	USB	None	None	None	vPro	None	Win7 P64 DG Win8.1	06/14
10A7003UUS	4x5	i7-4790	8Gx1	1TB 7200	DVD±RW	None	None	GT 620	None	None	None	None	vPro	None	Win7 P64 DG Win8.1	10/14
10A7003RUS	4x5	i5-4590	8Gx1	256G SSD	DVD±RW	7260 b/g/n	None	HD 4600	None	None	None	None	vPro	None	Win7 P64 DG Win8.1	10/14
10A7003PUS	4x5	i5-4590	4Gx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	None	vPro	None	Win7 P64 DG Win8.1	10/14
10A7003QUS	4x5	i5-4590	4Gx1	500G 7200	DVD±RW	7260 b/g/n	None	HD 4600	None	None	None	None	vPro	None	Win7 P64 DG Win8.1	10/14
10A7003SUS	4x5	i7-4790	8Gx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	vPro	None	Win7 P64 DG Win8.1	10/14
10A7003TUS	4x5	i7-4790	8Gx1	256G SSD	DVD±RW	7260 b/g/n	None	HD 4600	None	None	None	None	vPro	None	Win7 P64 DG Win8.1	10/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4590 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4790 Processor** (**4 cores / 8 threads**, 3.6GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 3.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	*Some:* 29-in-1 media reader, internal USB 2.0
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + BT 4.0 combo, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	• Mini Tower (25L), business black color, metal case • *(WxDxH)* 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm • 24.69 lb (11.20 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max) Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M93p Tiny (10AA) - 1 Year Depot

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10AA0023US	i5-4570T	4GBx1	500G 7200	None	HD 4600	Intel 105	HDMI	None	Stand	None	USB	vPro*	Win7 Pro64 (DG)	07/02/13
10AA0024US	i7-4765T	4GBx1	500G 7200	None	HD 4600	Intel 105	HDMI	None	Stand	None	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AA0025US	i7-4765T	4GBx1	500G 7200	None	HD 4600	Intel 6235	HDMI	None	Stand	None	USB	vPro	Win7 Pro64 (DG)	07/02/13

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *A depot repair service 1-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570T Processor** (**2 cores / 4 threads**, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-4765T Processor** (**4 cores / 8 threads**, 2.0GHz, 8MB cache), Turbo Boost 2.0 (3.0GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 2.5" Wide, 7200 rpm
External optical	None
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, Intel vPro technology support, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Machine	• Tiny (1L), business black color; metal case • *M93/p Tiny only:* 7.0" W X 7.2" D X 1.4" H • *M93/p Tiny only:* 179mm W X 182mm D X 34.5mm H • *M93/p Tiny only:* 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H • *With VESA mount & optical box:* 184mm W X 182mm D X 65mm H • *With VESA mount & optical box:* 5.1 lb (2.3 kg), weight may vary by configuration
Limited Warranty	**1-years** - depot repair service / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 2, 2013

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ThinkCentre M93p Tiny (10AA)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Intel vPro	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10AA0027US	i7-4765T	4GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 6235	2nd DP	None	None	Mount	vPro*	None	Win7 P64 DG Win8	09/10/13
10AA0028US	i5-4570T	4GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 6235	2nd DP	None	None	Mount	vPro	None	Win7 P64 DG Win8	09/10/13
10AA002BUS	i7-4765T	4GBx1	500G 7200	None	HD 4600	Intel 2230	2nd DP	None	Stand	None	vPro	None	Win7 P64 DG Win8	09/10/13
10AA002AUS	i7-4765T	4GBx1	500G Hybrid	I/O box	HD 4600	Intel 2230	HDMI	None	None	Mount	vPro	None	Win7 P64 DG Win8	09/10/13
10AA0029US	i5-4570T	4GBx1	500G Hybrid	I/O box	HD 4600	Intel 2230	HDMI	None	None	Mount	vPro	None	Win7 P64 DG Win8	09/10/13
10AA002CUS	i5-4570T	4GBx1	500G 7200	None	HD 4600	Intel 2230	2nd DP	None	Stand	None	vPro	None	Win7 P64 DG Win8	09/10/13
10AA003PUS	i7-4765T	4GBx1	256G SSD	None	HD 4600	Intel 6235	2nd DP	None	Stand	None	vPro	None	Win7 P64 DG Win8	11/12/13
10AA003QUS	i5-4570T	4GBx1	256G SSD	None	HD 4600	Intel 6235	2nd DP	None	Stand	None	vPro	None	Win7 P64 DG Win8	11/12/13
10AA0056US	i7-4765T	8GBx1	256G SSD OPAL	None	HD 4600	7260 AC	2nd DP	None	Stand	None	vPro	None	Win7 P64 DG Win8.1	06/17/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570T Processor** (**2 cores / 4 threads**, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-4765T Processor** (**4 cores / 8 threads**, 2.0GHz, 8MB cache), Turbo Boost 2.0 (3.0GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 2.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, Intel vPro technology support, 2x2 *Some:* 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, Intel vPro technology support, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Machine	• Tiny (1L), business black color; metal case • *M93/p Tiny only:* 7.0" W X 7.2" D X 1.4" H • *M93/p Tiny only:* 179mm W X 182mm D X 34.5mm H • *M93/p Tiny only:* 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H • *With VESA mount & optical box:* 184mm W X 182mm D X 65mm H • *With VESA mount & optical box:* 5.1 lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M93p Tiny (10AA) - GMP

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Intel vPro	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10AA001YUS	i5-4570T	2GBx1	320G 5400	None	HD 4600	Intel 105	None	Switch	Stand	None	vPro*	G P	Win7 Pro64	07/02/13
10AA0020US	i5-4570T	4GBx1	500G 5400	DVD	HD 4600	Intel 2230	Serial	Switch	None	Mount	vPro	G P	Win7 Pro64 (DG)	07/02/13
10AA0021US	i7-4765T	4GBx1	128G SSD	DVD	HD 4600	Intel 2230	2nd DP	Switch	None	Mount	vPro	G P	Win7 Pro64 (DG)	07/02/13
10AA0022US	i5-4570T	4GBx1	500G 5400	None	HD 4600	Intel 2230	HDMI	Switch	Stand	None	vPro	G P	Win7 Pro64 (DG)	07/02/13
10AA002RUS	i5-4570T	4GBx1	500G 7200	None	HD 4600	Intel 2230	HDMI	Switch	Stand	None	vPro	G P	Win7 Pro64 (DG)	10/08/13
10AA002SUS	i5-4570T	4GBx1	500G 7200	DVD±RW	HD 4600	Intel 2230	Serial	Switch	None	Mount	vPro	G P	Win7 Pro64 (DG)	10/08/13
10AA002UUS	i5-4570T	4GBx1	500G Hybrid	None	HD 4600	Intel 2230	HDMI	None	Stand	None	vPro	G P	Win7 Pro64 (DG)	11/12/13
10AA002VUS	i7-4765T	4GBx1	500G Hybrid	None	HD 4600	Intel 2230	2nd DP	None	Stand	None	vPro	G P	Win7 Pro64 (DG)	11/12/13
10AA002WUS	i5-4570T	4GBx1	500G 7200	None	HD 4600	Intel 105	2nd DP	None	Stand	None	vPro	G P	Win7 Pro64 (DG)	11/12/13
10AA004JUS	i5-4590T	2GBx1	320G 5400	None	HD 4600	Intel 105	None	Switch	Stand	None	vPro	G P	Win7 Pro64	06/10/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570T Processor** (**2 cores / 4 threads**, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4590T Processor** (**4 cores / 4 threads**, 2.0GHz, 6MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4765T Processor** (**4 cores / 8 threads**, 2.0GHz, 8MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* SATA 3.0Gb/s, 2.5" Wide, 5400 rpm *Some:* SATA 6.0Gb/s, 2.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB 3.0 *Some:* external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Machine	• Tiny (1L), business black color; metal case • *M93p Tiny only:* 7.0" W X 7.2" D X 1.4" H • *M93p Tiny only:* 179mm W X 182mm D X 34.5mm H • *M93p Tiny only:* 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H • *With VESA mount & optical box:* 184mm W X 182mm D X 65mm H • *With VESA mount & optical box:* 5.1 lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M93p Tiny (10AA) - GMP - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Intel vPro	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10AA004WUS	i7-4785T	4GBx1	128G SSD	DVD	HD 4600	7260 b/g//n	2nd DP	Switch	None	Mount	vPro*	G P	Win7 P64 DG Win 8.1	07/08/14
10AA004XUS	i5-4590T	4GBx1	500G 5400	None	HD 4600	7260 b/g//n	HDMI	Switch	Stand	None	vPro	G P	Win7 P64 DG Win 8.1	07/08/14
10AA004YUS	i5-4590T	4GBx1	500G 5400	DVD	HD 4600	7260 b/g//n	Serial	Switch	None	Mount	vPro	G P	Win7 P64 DG Win 8.1	07/08/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4590T Processor** (**4 cores / 4 threads**, 2.0GHz, 6MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4785T Processor** (**4 cores / 8 threads**, 2.2GHz, 8MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* SATA 3.0Gb/s, 2.5" Wide, 5400 rpm *Some:* SATA 6.0Gb/s, 2.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB 3.0 *Some:* external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Machine	• Tiny (1L), business black color; metal case • *M93/p Tiny only:* 7.0" W X 7.2" D X 1.4" H • *M93/p Tiny only:* 179mm W X 182mm D X 34.5mm H • *M93/p Tiny only:* 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H • *With VESA mount & optical box:* 184mm W X 182mm D X 65mm H • *With VESA mount & optical box:* 5.1 lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M93p Tiny (10DH) - GMP (TIO models)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Intel vPro	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10DH0003US	i7-4765T	4GBx1	128G SSD	DVD±RW (TIO23)	HD 4600	7260 b/g//n	2nd DP	Switch	None	None	vPro*	G P	Win7 P64 DG Win 8.1	10/14/14
10DH0004US	i5-4570T	4GBx1	500G 5400	DVD±RW (TIO23)	HD 4600	7260 b/g//n	2nd DP	Switch	None	None	vPro	G P	Win7 P64 DG Win 8.1	10/14/14
10DH0005US	i5-4570T	4GBx1	500G 7200	DVD±RW (TIO23)	HD 4600	7260 b/g//n	Serial	Switch	None	None	vPro	G P	Win7 P64 DG Win 8.1	10/14/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570T Processor** (**2 cores / 4 threads**, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4765T Processor** (**4 cores / 8 threads**, 2.0GHz, 8MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* SATA 3.0Gb/s, 2.5" Wide, 5400 rpm *Some:* SATA 6.0Gb/s, 2.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* external USB optical box with DVD burner, 9.5mm high, compatible with TIO 23
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	None
Machine	• Tiny (1L), business black color; metal case • *M93/p Tiny only:* 7.0" W X 7.2" D X 1.4" H • *M93/p Tiny only:* 179mm W X 182mm D X 34.5mm H • *M93/p Tiny only:* 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H • *With VESA mount & optical box:* 184mm W X 182mm D X 65mm H • *With VESA mount & optical box:* 5.1 lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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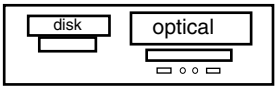
ThinkCentre M93p SFF Pro (10A8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	Optional 2.5" Bay	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Floor stand	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10A8000TUS	4x4	i7-4770	4GBx2	1TB 7200	DVD±RW	None	Intel 105	Media	GT 620	None	Serial	None	Stand	vPro*	Win7 P64 DG Win8	06/18/13
10A8000UUS	4x4	i7-4770	4GBx2	1TB 7200	DVD±RW	None	None	None	GT 620	USB	Serial	None	Stand	vPro	Win7 P64 DG Win8	06/18/13
10A8000VUS	4x4	i7-4770	4GBx1	500G 7200	DVD±RW	None	None	None	HD 4600	USB	Serial	None	Stand	vPro	Win7 P64 DG Win8	06/18/13
10A8000WUS	4x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	None	HD 4600	USB	Serial	None	Stand	vPro	Win7 P64 DG Win8	06/18/13
10A8000XUS	4x4	i5-4570	8GBx1	1TB 7200	DVD±RW	None	Intel 105	None	HD 4600	USB	Serial	None	Stand	vPro	Win7 P64 DG Win8	06/18/13
10A8000YUS	4x4	i5-4570	4GBx1	250G 7200	DVD±RW	None	None	None	HD 4600	None	None	None	Stand	vPro	Win7 P64 DG Win8	06/18/13
10A80037US	4x4	i5-4570	4GBx1	500G 7200	DVD±RW	2.5" bay	None	None	HD 7450	USB	None	None	Stand	vPro	Win7 P64 DG Win8.1	02/04/14
10A80038US	4x4	i7-4770	8GBx1	1TB 7200	DVD±RW	2.5" bay	None	None	HD 7450	USB	None	None	Stand	vPro	Win7 P64 DG Win8.1	02/04/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	*Some:* 29-in-1 media reader, slim, internal USB 2.0
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	• SFF Pro (12.9L), business black color; metal case • *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm • 17.20 lb (7.8 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max) Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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US model(s) announced June 18, 2013 or February 4, 2014

(MSS1S-1) February 2014

ThinkCentre M93p SFF Pro (10A8) - II

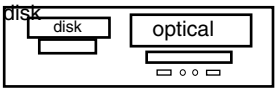
Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	Optional 2.5" Bay	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Floor stand	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10A8004MUS	4x4	i7-4790	8GBx1	1TB 7200	DVD±RW	2.5" bay	7260 b/g/n	None	HD 8570	None	None	None	None	vPro*	Win7 P64 DG Win8.1	10/18/14
10A8004JUS	4x4	i5-4590	4GBx1	256G SSD	DVD±RW	2.5" bay	7260 b/g/n	None	HD 4600	None	None	None	None	vPro	Win7 P64 DG Win8.1	10/18/14
10A8004KUS	4x4	i7-4790	4GBx1	500G 7200	DVD±RW	2.5" bay	None	None	HD 4600	None	None	None	None	vPro	Win7 P64 DG Win8.1	10/18/14
10A8004GUS	4x4	i5-4590	4GBx1	500G 7200	DVD±RW	2.5" bay	None	None	HD 4600	None	None	None	None	vPro	Win7 P64 DG Win8.1	10/18/14
10A8004LUS	4x4	i7-4790	8GBx1	1TB 7200	DVD±RW	2.5" bay	7260 b/g/n	None	HD 4600	None	None	None	None	vPro	Win7 P64 DG Win8.1	10/18/14
10A8004HUS	4x4	i5-4590	4GBx1	1TB 7200	DVD±RW	2.5" bay	None	None	HD 4600	None	None	None	None	vPro	Win7 P64 DG Win8.1	10/18/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4590 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4790 Processor** (**4 cores / 8 threads**, 3.6GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 3.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	*Some:* 29-in-1 media reader, slim, internal USB 2.0
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + BT 4.0 combo, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	• SFF Pro (12.9L), business black color; metal case • *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm • 17.20 lb (7.8 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max) Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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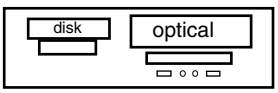
ThinkCentre M93p SFF Pro (10A8) - GMP

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Floor stand	Intel vPro	Global GMP (G) (P)	Preload	Ann date *(mm/dd/yy)*
10A8001GUS	4x4	i5-4570	2GBx1	500G 7200	DVD	None	None	HD 4600	None	None	Switch	None	vPro*	G P	Win7 Pro64	06/18/13
10A8001HUS	4x4	i5-4570	4GBx1	500G 7200	DVD	Intel 105	None	HD 4600	USB	None	Switch	Stand	vPro	G P	Win7 Pro64 (DG)	06/18/13
10A8001JUS	4x4	i7-4770	4GBx1	1TB 7200	DVD	Intel 105	None	HD 8470	USB	None	Switch	Stand	vPro	G P	Win7 Pro64 (DG)	06/18/13
10A8002CUS	4x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	Stand	vPro	G P	Win7 Pro64 (DG)	11/12/13
10A8002DUS	4x4	i7-4770	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	USB	Serial	None	Stand	vPro	G P	Win7 Pro64 (DG)	11/12/13
10A8003UUS	4x4	i5-4590	2GBx1	500G 7200	DVD	None	None	HD 4600	None	None	Switch	None	vPro	G P	Win7 Pro64	06/10/14
10A80049US	4x4	i7-4790	4GBx1	1TB 7200	DVD	8723BE	None	GT 620	None	None	Switch	Stand	vPro	G P	Win7 P64 DG Win 8.1	07/08/14
10A8004AUS	4x4	i5-4590	4GBx1	500G 7200	DVD	8723BE	None	HD 4600	None	None	Switch	Stand	vPro	G P	Win7 P64 DG Win 8.1	07/08/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4590 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4790 Processor** (**4 cores / 8 threads**, 3.6GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 8470**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide
Optical	*Some:* DVD-ROM DL SATA 1.5Gb/s 16-48X Max[4] Drive *Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi/BT 4.0, 1x1
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	*Some:* System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	• SFF Pro (12.9L), business black color; metal case • *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm • 17.20 lb (7.8 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt, come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max) Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M93p Mini Tower (10A6)

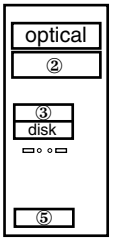
Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10A6000UUS	4x5	i7-4770	4GBx2	1TB 7200	DVD±RW	None	Media	GT 620	None	Serial	None	vPro*	None	Win7 P64 DG Win8	06/18/13
10A6000VUS	4x5	i7-4770	4GBx2	500G 7200	DVD±RW	None	Media	HD 8570	None	Serial	None	vPro	None	Win7 P64 DG Win8	06/18/13
10A6000WUS	4x5	i7-4770	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	USB	None	None	vPro	None	Win7 P64 DG Win8	06/18/13
10A6002NUS	4x5	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	USB	None	None	vPro	None	Win7 P64 DG Win8.1	02/04/14
10A6002PUS	4x5	i7-4770	8GBx1	1TB 7200	DVD±RW	None	None	HD 7450	USB	None	None	vPro	None	Win7 P64 DG Win8.1	02/04/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	*Some:* 29-in-1 media reader, internal USB 2.0
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	• Mini Tower (25L), business black color, metal case • *(WxDxH)* 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm • 24.69 lb (11.20 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max) Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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US model(s) announced June 18, 2013 or February 4, 2014
(MSS1T-1) February 2014

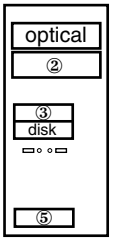
ThinkCentre M93p Mini Tower (10A6) - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10A6003EUS	4x5	i5-4590	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	vPro*	None	Win7 P64 DG Win8.1	10/28/14
10A6003DUS	4x5	i7-4790	4GBx1	1TB 7200	DVD±RW	7260 b/g/n	None	GT 620	None	None	None	vPro	None	Win7 P64 DG Win8.1	10/28/14
10A6003GUS	4x5	i5-4590	4GBx1	1TB 7200	DVD±RW	7260 b/g/n	None	GT 620	None	None	None	vPro	None	Win7 P64 DG Win8.1	10/28/14
10A6003AUS	4x5	i7-4790	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	vPro	None	Win7 P64 DG Win8.1	10/28/14
10A6003BUS	4x5	i7-4790	4GBx1	180G SSD	DVD±RW	7260 b/g/n	None	HD 4600	None	None	None	vPro	None	Win7 P64 DG Win8.1	10/28/14
10A6003FUS	4x5	i7-4790	8GBx1	1TB 7200	DVD±RW	7260 b/g/n	None	HD 8570	None	None	None	vPro	None	Win7 P64 DG Win8.1	10/28/14
10A6003HUS	4x5	i5-4590	8GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	vPro	None	Win7 P64 DG Win8.1	10/28/14
10A6003CUS	4x5	i7-4790	8GBx1	1TB 7200	DVD±RW	7260 b/g/n	None	HD 4600	None	None	None	vPro	None	Win7 P64 DG Win8.1	10/28/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	*Some:* 29-in-1 media reader, internal USB 2.0
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + BT 4.0 combo, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	• Mini Tower (25L), business black color, metal case • *(WxDxH)* 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm • 24.69 lb (11.20 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max) Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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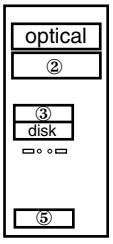
ThinkCentre M93p Mini Tower (10A6) - GMP

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Intel vPro	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10A60017US	4x5	i5-4570	2GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	Switch	vPro*	G P	Win7 Pro64	06/18/13
10A60018US	4x5	i7-4770	4GBx1	1TB 7200	DVD±RW	Intel 105	None	HD 8470	USB	None	Switch	vPro	G P	Win7 Pro64 (DG)	06/18/13
10A60019US	4x5	i5-4570	4GBx1	500G 7200	DVD±RW	Intel 105	None	HD 4600	USB	None	Switch	vPro	G P	Win7 Pro64 (DG)	06/18/13
10A6001DUS	4x5	i5-4570	4GBx1	500G 7200	DVD	Intel 105	None	HD 4600	USB	None	Switch	vPro	G P	Win7 Pro64 (DG)	08/20/13
10A6001EUS	4x5	i7-4770	4GBx1	1TB 7200	DVD	Intel 105	None	HD 8470	USB	None	Switch	vPro	G P	Win7 Pro64 (DG)	08/20/13
10A6001FUS	4x5	i5-4570	2GBx1	500G 7200	DVD	None	None	HD 4600	None	None	Switch	vPro	G P	Win7 Pro64	08/20/13
10A6001SUS	4x5	i7-4770	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	USB	Serial	None	vPro	G P	Win7 Pro64 (DG)	11/12/13
10A6001TUS	4x5	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	vPro	G P	Win7 Pro64 (DG)	11/12/13
10A6002SUS	4x5	i5-4590	2GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	Switch	vPro	G P	Win7 Pro64	06/10/14
10A6002YUS	4x5	i5-4590	4GBx1	500G 7200	DVD±RW	8723BE	None	HD 4600	None	None	Switch	vPro	G P	Win7 P64 DG Win8.1	07/08/14
10A60030US	4x5	i7-4790	4GBx1	1TB 7200	DVD±RW	8723BE	None	GT 620	None	None	Switch	vPro	G P	Win7 P64 DG Win8.1	07/08/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4590 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4790 Processor** (**4 cores / 8 threads**, 3.6GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 8470**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide
Optical	*Some:* DVD-ROM DL SATA 1.5Gb/s 16-48X Max[4] Drive *Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi/BT 4.0, 1x1
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	• Mini Tower (25L), business black color, metal case • *(WxDxH)* 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm • 24.69 lb (11.20 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max) Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M93z (Multi-touch) with Frame Stand and optional wireless keyboard and mouse

ThinkCentre M93z (Non-touch) with Monitor Standand optional wireless keyboard and mouse

ThinkCentre M93z with Monitor Stand with optional PS/2 and Serial ports

ThinkCentre M93z with Frame Stand with optional PS/2 and Serial ports

Frame Stand
(Adjustable between 10° and 45°)

Monitor Stand
(Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°)

ThinkCentre M93z (10AF) - TopSeller (1-year onsite)

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[6]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AF000JUS	G3220	4GBx1	2.0M	500G 7200	Intel HD	N105	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG	08/20/13

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

●*Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3***, two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	• Business black color • Toolless back cover, stand removal • Toolless disk, optical drive, memory removal • Support VESA mount (100mm) *Non-touch model(s) with frame stand:* • *(WxDxH)* 22.4" X 3.6" X 17.6"; 568mm X 92.5mm X 447.3 mm • 21.3 lb (9.68 kg) in maximum configuration • Adjustable stand (between 10° and 45°) *Non-touch model(s) with monitor stand:* • *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm • 25.5 lb (11.58 kg) in maximum configuration • Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**1-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced August 20, 2013

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ThinkCentre M93z (10AF) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[§]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AF0003US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	Monitor	USB	vPro*	None	Win7 Pro64 DG	07/09/13
10AF0004US	i5-4430S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG	07/09/13
10AF0005US	i7-4770S	4GBx1	2.0M	1TB 7200	HD 4600	N6235	Media	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	07/09/13
10AF0006US	i5-4670S	4GBx1	2.0M	500G Hybrid	HD 4600	N6235	Media	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	07/09/13
10AF0007US	i5-4570S	4GBx1	2.0M	180G SSD	HD 4600	N2230	None	None	None	None	Frame	USB	vPro	None	Win7 Pro64 DG	07/09/13
10AF0008US	i7-4770S	8GBx1	2.0M	500G Hybrid	HD 4600	N6235	Media	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	07/09/13
10AF000KUS	i5-4570S	4GBx1	2.0M	128G SSD	HD 4600	N2230	None	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	09/10/13
10AF000LUS	i7-4770S	8GBx1	2.0M	1TB 7200	HD 4600	N6235	Media	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	09/10/13

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670S Processor** (**4 cores / 4 threads**, 3.1GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, Intel vPro technology support, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	• Business black color • Toolless back cover, stand removal • Toolless disk, optical drive, memory removal • Support VESA mount (100mm) *Non-touch model(s) with frame stand:* • *(WxDxH)* 22.4" X 3.6" X 17.6"; 568mm X 92.5mm X 447.3 mm • 21.3 lb (9.68 kg) in maximum configuration • Adjustable stand (between 10° and 45°) *Non-touch model(s) with monitor stand:* • *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm • 25.5 lb (11.58 kg) in maximum configuration • Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 9, 2013 or September 10, 2013

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ThinkCentre M93z (10AF) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AF000FUS	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N2230	None	None	None	None	Monitor	USB	None	None	Win7 Pro64 DG	08/20/13
10AF000GUS	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N2230	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG	08/20/13
10AF000HUS	i3-4130	4GBx1	2.0M	500G Hybrid	HD 4400	N2230	Media	None	None	None	Monitor	USB	None	None	Win7 Pro64 DG	08/20/13
10AF000VUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	None	USB	vPro*	None	Win7 Pro64 DG	11/12/13
10AF000WUS	i7-4770S	8GBx1	2.0M	256G SSD	HD 4600	N2230	None	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	11/12/13
10AF0010US	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N7260	None	None	None	None	Monitor	USB	None	None	Win7 P64 DG Win8.1	01/21/14
10AF0011US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	01/21/14
10AF001HUS	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	12/09/14
10AF001JUS	i3-4150	4GBx1	2.0M	500G 7200	HD 4400	N7260	Media	None	None	None	Monitor	USB	None	None	Win7 P64 DG Win8.1	03/24/15
10AF001KUS	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	N7260	Media	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	03/24/15

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i3-4150 Processor** (**2 cores / 4 threads**, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4590S Processor** (**4 cores / 4 threads**, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n, PCIe HMC, Intel Centrino® Wireless-N 2230,Wi-Fi + BT combo, 2x2 *Some:* 11b/g/n, PCIe HMC, Intel Wireless-N 7260, Wi-Fi + BT combo, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	• Business black color • Toolless back cover, stand removal • Toolless disk, optical drive, memory removal • Support VESA mount (100mm) *Non-touch model(s) with frame stand:* • *(WxDxH)* 22.4" X 3.6" X 17.6"; 568mm X 92.5mm X 447.3 mm • 21.3 lb (9.68 kg) in maximum configuration • Adjustable stand (between 10° and 45°) *Non-touch model(s) with monitor stand:* • *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm • 25.5 lb (11.58 kg) in maximum configuration • Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - 1-year onsite

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[6]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AD001HUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	Frame	USB	vPro*	None	Win7 Pro64 DG	08/13/13
10AD001MUS	G3220	4GBx1	2.0M	500G 7200	Intel HD	N105	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG	08/20/13

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

●*Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3***, two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	● Business black color ● Toolless back cover, stand removal ● Toolless disk, optical drive, memory removal ● Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* ● *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm ● 24.7 lb (11.22 kg) in maximum configuration ● Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* ● *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm ● 28.9 lb (13.12 kg) in maximum configuration ● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**1-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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US model(s) announced August 13, 2013 or August 20, 2013
(MPHS1-13) September 2013

ThinkCentre M93z (10AD) - Multi-touch (TopSeller)

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AD0001US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	Monitor	USB	vPro*	None	Win7 Pro64 DG	07/09/13
10AD0003US	i5-4430S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG	07/09/13
10AD0004US	i7-4770S	4GBx1	2.0M	1TB 7200	HD 4600	N6235	Media	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	07/09/13
10AD0005US	i5-4570S	4GBx1	2.0M	500G Hybrid	HD 4600	N2230	None	None	None	None	Frame	USB	vPro	None	Win7 Pro64 DG	07/09/13
10AD0008US	i7-4770S	8GBx1	2.0M	1TB 7200	HD 4600	N6235	Media	None	None	None	Monitor	2.4G	vPro	None	Win7 Pro64 DG	07/09/13
10AD0009US	i5-4570S	4GBx1	2.0M	180G SSD	HD 4600	N2230	None	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	07/09/13
10AD001GUS	i5-4570S	4GBx1	2.0M	128G SSD	HD 4600	N2230	None	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	08/13/13

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, Intel vPro technology support, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), Lenovo® logo *Some:* Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
Mouse	*Some:* Enhanced Optical USB Mouse, black, Lenovo logo *Some:* Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Power supply	150 watts, autosensing, 85% PSU
Machine	• Business black color • Toolless back cover, stand removal • Toolless disk, optical drive, memory removal • Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* • *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm • 24.7 lb (11.22 kg) in maximum configuration • Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* • *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm • 28.9 lb (13.12 kg) in maximum configuration • Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 9, 2013 or August 13, 2013

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ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - II

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory§	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AD001JUS	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N2230	None	None	None	None	Monitor	USB	None	None	Win7 Pro64 DG	08/20/13
10AD001KUS	i3-4130	4GBx1	2.0M	500G Hybrid	HD 4400	N2230	Media	None	None	None	Monitor	USB	None	None	Win7 Pro64 DG	08/20/13
10AD001LUS	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N2230	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG	08/20/13
10AD0020US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N6235	Media	None	None	None	None	USB	vPro*	None	Win7 Pro64 DG	11/12/13
10AD0021US	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N2230	None	None	None	None	None	USB	None	None	Win7 Pro64 DG	11/12/13
10AD0022US	i5-4570S	4GBx1	2.0M	256G SSD	HD 4600	N2230	Media	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	11/12/13

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, Intel vPro technology support, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	• Business black color • Toolless back cover, stand removal • Toolless disk, optical drive, memory removal • Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* • *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm • 24.7 lb (11.22 kg) in maximum configuration • Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* • *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm • 28.9 lb (13.12 kg) in maximum configuration • Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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US model(s) announced August 20, 2013 or November 12, 2013

(MPHS1-12) November 2013

ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - III

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[9]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AD0024US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N7260	Media	None	None	None	Monitor	USB	vPro*	None	Win7 P64 DG Win8.1	01/21/14
10AD0025US	i7-4770S	4GBx1	2.0M	500G Hybrid	HD 4600	N7260	Media	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	01/21/14
10AD0026US	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N7260	None	None	None	None	Monitor	USB	None	None	Win7 P64 DG Win8.1	01/21/14
10AD0027US	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N7260	None	None	None	None	Frame	USB	None	None	Win7 P64 DG Win8.1	01/21/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

●*Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	● Business black color ● Toolless back cover, stand removal ● Toolless disk, optical drive, memory removal ● Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* ● *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm ● 24.7 lb (11.22 kg) in maximum configuration ● Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* ● *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm ● 28.9 lb (13.12 kg) in maximum configuration ● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced January 21, 2014

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ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - IV

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[9]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/yy)*
10AD002LUS	i3-4150	4GBx1	2.0M	500G 7200	HD 4400	N7260	Media	None	None	None	Monitor	USB	None	None	Win7 P64 DG Win8.1	10/14
10AD002GUS	i5-4590S	4GBx1	2.0M	1TB 7200	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro*	None	Win7 P64 DG Win8.1	10/14
10AD002RUS	i7-4790S	8GBx1	2.0M	1TB 7200	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	10/14
10AD002PUS	i7-4790S	4GBx1	2.0M	500G 7200	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	10/14
10AD002NUS	i3-4150	4GBx1	2.0M	180G SSD	HD 4400	N7260	Media	None	None	None	Frame	USB	None	None	Win7 P64 DG Win8.1	10/14
10AD002MUS	i3-4150	4GBx1	2.0M	500G 7200	HD 4400	N7260	Media	None	None	None	Frame	USB	None	None	Win7 P64 DG Win8.1	10/14
10AD002SUS	i7-4790S	4GBx1	2.0M	180G SSD	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	10/14
10AD002QUS	i7-4790S	8GBx1	2.0M	256G SSD	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	10/14
10AD002KUS	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	N7260	None	Sensor	None	None	Frame	USB	vPro	None	Win7 P64 DG Win8.1	10/14
10AD002HUS	i5-4590S	8GBx1	2.0M	256G SSD	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	10/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-4150 Processor** (**2 cores / 4 threads**, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4590S Processor** (**4 cores / 4 threads**, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4790S Processor** (**4 cores / 8 threads**, 3.2GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	• Business black color • Toolless back cover, stand removal • Toolless disk, optical drive, memory removal • Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* • *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm • 24.7 lb (11.22 kg) in maximum configuration • Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* • *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm • 28.9 lb (13.12 kg) in maximum configuration • Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - V

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[9]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/yy)*
10AD002FUS	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro*	None	Win7 P64 DG Win8.1	10/14
10AD002JUS	i5-4590S	4GBx1	2.0M	180G SSD	HD 4600	N7260	None	Sensor	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	10/14
10AD002UUS	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	N7260	Media	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	03/15

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-4150 Processor** (**2 cores / 4 threads**, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4590S Processor** (**4 cores / 4 threads**, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4790S Processor** (**4 cores / 8 threads**, 3.2GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	• Business black color • Toolless back cover, stand removal • Toolless disk, optical drive, memory removal • Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* • *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm • 24.7 lb (11.22 kg) in maximum configuration • Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* • *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm • 28.9 lb (13.12 kg) in maximum configuration • Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - Windows 8

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory	Camera (mega-pixel)	Disk SATA GB	Disk rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AD0002US	i5-4670S	4GBx1	2.0M	500G	7200	HD 4600	N2230	Media	None	None	None	Monitor	2.4G	vPro*	None	Win8 Pro64	07/09/13
10AD0006US	i7-4770S	8GBx1	2.0M	500G	Hybrid	HD 4600	N2230	Media	None	None	None	Frame	2.4G	vPro	None	Win8 Pro64	07/09/13
10AD0007US	i5-4570S	4GBx1	2.0M	500G	7200	HD 4600	N6235	Media	None	None	None	Monitor	2.4G	vPro	None	Win8 Pro64	07/09/13
10AD001DUS	i5-4670S	4GBx1	2.0M	500G	7200	HD 4600	N2230	Media	Sensor	None	None	Monitor	USB	vPro	None	Win8 Pro64	07/23/13
10AD001EUS	i5-4670S	4GBx1	2.0M	1TB	7200	HD 4600	N2230	Media	None	None	None	Monitor	USB	vPro	None	Win8 Pro64	07/23/13
10AD001FUS	i7-4770S	8GBx1	2.0M	1TB	7200	HD 4600	N6235	Media	Sensor	None	None	Monitor	USB	vPro	None	Win8 Pro64	07/23/13
10AD001NUS	i3-4130	4GBx1	2.0M	500G	7200	HD 4400	N2230	Media	None	None	None	Monitor	USB	None	None	Win8 Pro64	08/20/13

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670S Processor** (**4 cores / 4 threads**, 3.1GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, Intel vPro technology support, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), Lenovo® logo *Some:* Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
Mouse	*Some:* Enhanced Optical USB Mouse, black, Lenovo logo *Some:* Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Power supply	150 watts, autosensing, 85% PSU
Machine	• Business black color • Toolless back cover, stand removal • Toolless disk, optical drive, memory removal • Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* • *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm • 24.7 lb (11.22 kg) in maximum configuration • Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* • *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm • 28.9 lb (13.12 kg) in maximum configuration • Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 8 Pro 64-bit

Web install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage System Update
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro
- AccuWeather
- Norton™ Studio

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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US model(s) announced July 9, 2013, July 23, 2013, August 20, 2013
(MPHS1-6) September 2013

ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - Windows 8.1

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[9]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AD0028US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N7260	Media	Sensor	None	None	Frame	USB	vPro*	None	Win8.1 Pro64	01/21/14
10AD0029US	i5-4670S	4GBx1	2.0M	500G 7200	HD 4600	N7260	Media	Sensor	None	None	Monitor	USB	vPro	None	Win8.1 Pro64	01/21/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670S Processor** (**4 cores / 4 threads**, 3.1GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), Lenovo® logo *Some:* Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
Mouse	*Some:* Enhanced Optical USB Mouse, black, Lenovo logo *Some:* Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Power supply	150 watts, autosensing, 85% PSU
Machine	• Business black color • Toolless back cover, stand removal • Toolless disk, optical drive, memory removal • Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* • *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm • 24.7 lb (11.22 kg) in maximum configuration • Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* • *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm • 28.9 lb (13.12 kg) in maximum configuration • Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 8.1 Pro 64-bit

Web install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage System Update
- ThinkVantage AutoLock
- Desktop Power Manager
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro
- AccuWeather
- Norton™ Studio
- Pokki
- Hightail

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced January 21, 2014

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ThinkCentre M93z (10AE)

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[6]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AE000FUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	Monitor	USB	vPro*	None	Win7 Pro64 DG	07/09/13
10AE000GUS	i7-4770S	4GBx1	2.0M	1TB 7200	HD 4600	N6235	Media	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	07/09/13
10AE000HUS	i5-4430S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG	07/09/13
10AE000YUS	i5-4570S	4GBx1	2.0M	500G Hybrid	HD 4600	N2230	Media	None	None	None	Frame	USB	vPro	None	Win7 Pro64 DG	07/09/13

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, Intel vPro technology support, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	• Business black color • Toolless back cover, stand removal • Toolless disk, optical drive, memory removal • Support VESA mount (100mm) *Non-touch model(s) with frame stand:* • *(WxDxH)* 22.4" X 3.6" X 17.6"; 568mm X 92.5mm X 447.3 mm • 21.3 lb (9.68 kg) in maximum configuration • Adjustable stand (between 10° and 45°) *Non-touch model(s) with monitor stand:* • *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm • 25.5 lb (11.58 kg) in maximum configuration • Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 9, 2013

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ThinkCentre M93z (10AE) - II

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[6]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AE001GUS	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N2230	None	None	None	None	Monitor	USB	None	None	Win7 P64 DG Win8	08/20/13
10AE001HUS	G3220	4GBx1	2.0M	500G 7200	Intel HD	N105	None	None	None	None	Frame	USB	None	None	Win7 P64 DG Win8	08/20/13
10AE001JUS	i3-4130	4GBx1	2.0M	500G Hybrid	HD 4400	N2230	None	None	None	None	Monitor	USB	None	None	Win7 P64 DG Win8	08/20/13
10AE002TUS	i5-4590S	4GBx1	2.0M	256G SSD	HD 4600	N7260	Media	None	None	None	Monitor	USB	vPro*	None	Win7 P64 DG Win8.1	01/06/15
10AE002UUS	i7-4790S	8GBx1	2.0M	1TB 7200	HD 4600	N7260	Media	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	01/06/15
10AE002SUS	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	N7260	Media	None	None	None	Frame	USB	vPro	None	Win7 P64 DG Win8.1	01/06/15
10AE002RUS	i3-4150	4GBx1	2.0M	500G 7200	HD 4400	N7260	Media	None	None	None	Frame	USB	None	None	Win7 P64 DG Win8.1	01/06/15

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i3-4150 Processor** (**2 cores / 4 threads**, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4590S Processor** (**4 cores / 4 threads**, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4790S Processor** (**4 cores / 8 threads**, 3.2GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3***, two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + BT, 2x2 *Some:* 11b/g/n, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + BT, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	• Business black color • Toolless back cover, stand removal • Toolless disk, optical drive, memory removal • Support VESA mount (100mm) *Non-touch model(s) with frame stand:* • *(WxDxH)* 22.4" X 3.6" X 17.6"; 568mm X 92.5mm X 447.3 mm • 21.3 lb (9.68 kg) in maximum configuration • Adjustable stand (between 10° and 45°) *Non-touch model(s) with monitor stand:* • *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm • 25.5 lb (11.58 kg) in maximum configuration • Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8/8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M93z (10AE) - GMP

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10AE001FUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	Media	Sensor	None	Switch	Monitor	USB	vPro*	G P	Win7 Pro64	07/09/13
10AE001DUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N6235	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win7 P64 DG Win8	07/09/13
10AE0022US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	7260 b/g/n	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win7 P64 DG Win8.1	02/25/14
10AE002GUS	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	N2230	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win7 Pro64	06/10/14
10AE002LUS	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	7260 ac	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win7 P64 DG Win8.1	07/08/14
10AE002MUS	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	7260 b/g/n	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win7 Pro64	07/08/14
10AE002VUS	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	7260 b/g/n	None	None	None	None	Monitor	USB	vPro	G P	Win7 P64 DG Win8.1	12/09/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-4590S Processor** (**4 cores / 4 threads**, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, Intel vPro technology support, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, Intel vPro technology support, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	• Business black color • Toolless back cover, stand removal • Toolless disk, optical drive, memory removal • Support VESA mount (100mm) *Non-touch model(s) with frame stand:* • *(WxDxH)* 22.4" X 3.6" X 17.6"; 568mm X 92.5mm X 447.3 mm • 21.3 lb (9.68 kg) in maximum configuration • Adjustable stand (between 10° and 45°) *Non-touch model(s) with monitor stand:* • *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm • 25.5 lb (11.58 kg) in maximum configuration • Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M93z (10AE) - GMP (Windows 8/8.1)

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[9]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10AE001EUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	Media	Sensor	None	Switch	Monitor	USB	vPro*	G P	Win8 Pro64	07/09/13
10AE0023US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N7260	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win8.1 Pro64	02/25/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

- *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*
- *3-year limited warranty*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	• Business black color • Toolless back cover, stand removal • Toolless disk, optical drive, memory removal • Support VESA mount (100mm) *Non-touch model(s) with frame stand:* • *(WxDxH)* 22.4" X 3.6" X 17.6"; 568mm X 92.5mm X 447.3 mm • 21.3 lb (9.68 kg) in maximum configuration • Adjustable stand (between 10° and 45°) *Non-touch model(s) with monitor stand:* • *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm • 25.5 lb (11.58 kg) in maximum configuration • Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 8 Pro 64-bit
Some: Windows 8.1 Pro 64-bit

Web install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage System Update
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility (for WIndows 8 only)
- Lenovo Cloud Storage by SugarSync (for WIndows 8 only)
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro
- AccuWeather
- Norton™ Studio
- Pokki (for WIndows 8.1 only)
- Hightail (for WIndows 8.1 only)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 9, 2013 or February 25, 2014

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ThinkCentre M93z (10AC) - Multi-touch

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[9]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AC000GUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	Monitor	USB	vPro*	None	Win7 Pro64 DG	07/09/13
10AC000HUS	i7-4770S	4GBx1	2.0M	1TB 7200	HD 4600	N6235	Media	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	07/09/13
10AC000JUS	i5-4430S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG	07/09/13
10AC0011US	i7-4770S	8GBx1	2.0M	500G Hybrid	HD 4600	N2230	Media	None	None	None	Monitor	2.4G	vPro	None	Win7 Pro64 DG	07/09/13

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, Intel vPro technology support, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), Lenovo® logo *Some:* Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
Mouse	*Some:* Enhanced Optical USB Mouse, black, Lenovo logo *Some:* Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Power supply	150 watts, autosensing, 85% PSU
Machine	• Business black color • Toolless back cover, stand removal • Toolless disk, optical drive, memory removal • Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* • *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm • 24.7 lb (11.22 kg) in maximum configuration • Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* • *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm • 28.9 lb (13.12 kg) in maximum configuration • Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 9, 2013

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ThinkCentre M93z (10AC) - Multi-touch - II

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory§	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AC001JUS	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N2230	None	None	None	None	Monitor	USB	None	None	Win7 Pro64 DG	08/20/13
10AC001KUS	i3-4130	4GBx1	2.0M	500G Hybrid	HD 4400	N2230	None	None	None	None	Monitor	USB	None	None	Win7 Pro64 DG	08/20/13
10AC001LUS	G3220	4GBx1	2.0M	500G 7200	Intel HD	N105	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG	08/20/13

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

●*3-year limited warranty*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), integrated Intel HD Graphics 4400, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3***, two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	● Business black color ● Toolless back cover, stand removal ● Toolless disk, optical drive, memory removal ● Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* ● *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm ● 24.7 lb (11.22 kg) in maximum configuration ● Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* ● *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm ● 28.9 lb (13.12 kg) in maximum configuration ● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced August 20, 2013

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ThinkCentre M93z (10AC) - Multi-touch - III

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[9]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AC003FUS	i3-4150	8GBx1	2.0M	256G SSD	HD 4400	N7260	Media	None	None	None	Monitor	USB	None	None	Win7 P64 DG Win8.1	10/14/14
10AC003HUS	i3-4150	4GBx1	2.0M	500G 7200	HD 4400	N7260	Media	None	None	None	Frame	USB	None	None	Win7 P64 DG Win8.1	10/14/14
10AC003DUS	i3-4150	4GBx1	2.0M	500G 7200	HD 4400	N7260	Media	None	None	None	Monitor	USB	None	None	Win7 P64 DG Win8.1	10/14/14
10AC0038US	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	N7260	Media	None	None	None	Monitor	USB	vPro*	None	Win7 P64 DG Win8.1	10/14/14
10AC003GUS	i3-4150	8GBx1	2.0M	256G SSD	HD 4400	N7260	Media	None	None	None	Frame	USB	None	None	Win7 P64 DG Win8.1	10/14/14
10AC003AUS	i5-4590S	4GBx1	2.0M	180G SSD	HD 4600	N7260	Media	Sensor	None	None	Frame	USB	vPro	None	Win7 P64 DG Win8.1	10/14/14
10AC003JUS	i3-4150	4GBx1	2.0M	180G SSD	HD 4400	N7260	Media	None	None	None	Frame	USB	None	None	Win7 P64 DG Win8.1	10/14/14
10AC003CUS	i7-4790S	8GBx1	2.0M	256G SSD	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	10/14/14
10AC0039US	i5-4590S	8GBx1	2.0M	256G SSD	HD 4600	N7260	Media	Sensor	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	10/14/14
10AC003EUS	i3-4150	4GBx1	2.0M	180G SSD	HD 4400	N7260	Media	None	None	None	Monitor	USB	None	None	Win7 P64 DG Win8.1	10/14/14
10AC003BUS	i7-4790S	4GBx1	2.0M	500G 7200	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	10/14/14
10AC003KUS	i7-4790S	8GBx1	2.0M	1TB 7200	HD 4600	N7260	Media	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	01/06/15

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-4150 Processor** (**2 cores / 4 threads**, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4590S Processor** (**4 cores / 4 threads**, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4790S Processor** (**4 cores / 8 threads**, 3.2GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3***, two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	• Business black color • Toolless back cover, stand removal • Toolless disk, optical drive, memory removal • Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* • *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm • 24.7 lb (11.22 kg) in maximum configuration • Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* • *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm • 28.9 lb (13.12 kg) in maximum configuration • Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M93z (10AC) - Multi-touch (Windows 8)

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[9]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AC0010US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N6235	Media	None	None	None	Monitor	2.4G	vPro*	None	Win8 Pro64	07/09/13
10AC001HUS	i7-4770S	8GBx1	2.0M	1TB 7200	HD 4600	N6235	Media	Sensor	None	None	Monitor	USB	vPro	None	Win8 Pro64	08/13/13

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

●*3-year limited warranty*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, Intel vPro technology support, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), Lenovo® logo *Some:* Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
Mouse	*Some:* Enhanced Optical USB Mouse, black, Lenovo logo *Some:* Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Power supply	150 watts, autosensing, 85% PSU
Machine	● Business black color ● Toolless back cover, stand removal ● Toolless disk, optical drive, memory removal ● Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* ● *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm ● 24.7 lb (11.22 kg) in maximum configuration ● Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* ● *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm ● 28.9 lb (13.12 kg) in maximum configuration ● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 8 Pro 64-bit

Web install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage System Update
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro
- AccuWeather
- Norton™ Studio

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 9, 2013 or August 13, 2013

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(MPHS1-2) August 2013

ThinkCentre M93z (10AC) - Multi-touch (GMP)

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10AC001GUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	Media	Sensor	None	Switch	Monitor	USB	vPro*	G P	Win7 Pro64	07/09/13
10AC001EUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N6235	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win7 P64 DG Win8	07/09/13
10AC002CUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	7260 b/g/n	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win7 P64 DG Win8.1	02/25/14
10AC002YUS	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	N2230	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win7 Pro64	06/10/14
10AC0031US	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	7260 ac	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win7 P64 DG Win8.1	07/08/14
10AC0033US	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	7260 b/g/n	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win7 Pro64	07/08/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-4590S Processor** (**4 cores / 4 threads**, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, Intel vPro technology support, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, Intel vPro technology support, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	• Business black color • Toolless back cover, stand removal • Toolless disk, optical drive, memory removal • Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* • *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm • 24.7 lb (11.22 kg) in maximum configuration • Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* • *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm • 28.9 lb (13.12 kg) in maximum configuration • Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M93z (10AC) - Multi-touch (GMP) - Windows 8/8.1

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[9]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10AC001FUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	Media	Sensor	None	Switch	Monitor	USB	vPro*	G P	Win8 Pro64	07/09/13
10AC002DUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N7260	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win8.1 Pro64	02/25/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

- *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*
- *3-year limited warranty*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	• Business black color • Toolless back cover, stand removal • Toolless disk, optical drive, memory removal • Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* • *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm • 24.7 lb (11.22 kg) in maximum configuration • Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* • *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm • 28.9 lb (13.12 kg) in maximum configuration • Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 8 Pro 64-bit
Some: Windows 8.1 Pro 64-bit

Web install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage System Update
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility (for WIndows 8 only)
- Lenovo Cloud Storage by SugarSync (for WIndows 8 only)
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro
- AccuWeather
- Norton™ Studio
- Pokki (for WIndows 8.1 only)
- Hightail (for WIndows 8.1 only)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 9, 2013 or February 25, 2104

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ThinkCentre Edge 62z

Lenovo ThinkCentre Edge 62z with Frame Stand

Lenovo ThinkCentre Edge 62z with Frame Stand

Lenovo ThinkCentre Edge 62z with Frame Stand

Handle

Lenovo ThinkCentre Edge 62z with Frame Stand

Lenovo ThinkCentre Edge 62z with Frame Stand

ThinkCentre Edge 62z (2117) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera	Disk SATA GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Stand type	Global	Preload	Ann date *(mm/dd/yy)*
2117-BBU	i3-3220	4GBx1 1600MHz	720p	500G 7200	DVD±RW	HD 2500	Intel 105	Frame	None	Win7 Pro64	03/26/13
2117-EKU	G2020	2GBx1 1600MHz	720p	500G 7200	DVD±RW	Intel HD	Intel 105	Frame	None	Win7 Pro64	03/26/13
2117-ELU	G2020	2GBx1 1600MHz	720p	500G 7200	None	Intel HD	Intel 105	Frame	None	Win7 Pro64	03/26/13
2117-EWU	i3-3240	2GBx1 1600MHz	720p	320G 5400	DVD±RW	HD 2500	Intel 105	Frame	None	Win7 Pro64	05/14/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Essential All-In-One PC for small/medium businesses*
Processor	**Intel® Pentium® G2020 Processor** (**2 cores / 2 threads**, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core™ i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i3-3240 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller
Implementation	Processor in LGA1155 socket
Memory	8GB max, **PC3-12800 1600MHz DDR3**, one 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics** or **Intel HD Graphics 2500** in processor, uses system memory
Display	**18.5"** (470mm) **HD (1366x768) TFT color**, CCFL backlight, 200 nits, 16:9 aspect ratio, 600:1 dynamic contrast ratio
Multi-touch	None
Camera	HD720p Camera on top of screen, 1.0-megapixel, fixed focus
Controls	Front facing button for power on/off, side buttons for brightness up and brightness down
Disk	Hard Disk Drive / SATA 3.0Gb/s, 2.5" Wide
Optical	*Some:* DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Media reader	None
Chipset	**Intel H61 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), serial (9-pin)
Side ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® wireless-N 105, 1x1
Bluetooth	None
Ethernet	One gigabit ethernet port, Realtek® RTL8111E-VC
Audio	High Definition (HD) Audio, Realtek ALC269Q
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Security chip	None
Keyboard	Lenovo® Slim New F5 USB Keyboard (USB connector), black
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	120 watts, autosensing, 87% PSU
Machine	*Model(s) with Frame stand:* ● Business black color ● 18.5" W X 2.3" D X 14.5" H ● 469.7mm W X 59.5mm D X 368.4mm H (including stand) ● 11 lb (5 kg) in maximum configuration ● Tilt: 10°-20° back; no lift; no swivel; adjustable stand ● Supports VESA mount (100mm)
Limited Warranty	**1-year**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager
- Lenovo® Message Center Plus

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Automatic Lock Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo Solution Center
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Lenovo Cloud Storage by SugarSync
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Evernote®
- Symantec™ VIP
- Intel AppUp®
- Nitro PDF Pro
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement

ENERGY STAR® 5.2-compliant
EuP 2013
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-Edge62Z sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced March 26 or May 14, 2013

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ThinkCentre E63z (touch)
wiith USB mouse/keyboard

ThinkCentre E63z (touch)
wiith USB mouse/keyboard

ThinkCentre E63z (non-touch)
wiith USB mouse/keyboard

ThinkCentre E63z
(right view)

ThinkCentre E63z
(left view)

ThinkCentre E63z
(back view)

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ThinkCentre E63z Platform Specifications

Processor

Intel® Pentium® or 4th Generation Intel Core™ i3 Processor

Processor	Cores / Threads	Clock Speed	Max Burst Frequency	Cache	Memory Types	Integrated Graphics
Pentium J2900	4 / 4	2.41 GHz	2.66 GHz	2MB	DDR3L-1333	Intel HD
Core i3-4005U	2 / 4	1.7 Ghz	-	3MB	DDR3L-1600	Intel HD 4400

* System-on-Chip (SoC) solution, integrates Intel processor core, Graphics, Memory Controller, and I/O interfaces

Memory

Pentium models: 8GB max[7] / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
Core i3 models: 16GB max[7] / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets
*System automatically clocks down for 1333MHz DDR3 memory controller

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: 500GB (5400 rpm) or 1TB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

None

SATA controller

Pentium models: Serial ATA, SATA 3.0Gb/s support, integrated in processor
Core i3 models: Serial ATA, SATA 6.0Gb/s support, integrated in processor

Media reader

Optional 7-in-1 media card reader (Core i3 models only)

Graphics

Intel HD Graphics or **Intel HD Graphics 4400** in processor, uses main memory, *Maximum resolution:* 1600x900@60Hz (panel); 2560x1600@60Hz (HDMI-out)

Display

19.5" (495.3mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°), frameless for touch models, frame for non-touch models

Multi-touch

Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

Camera

Some: 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator

Controls

Power button on right side

Chipset

Intel System-on-Chip (SoC) platform

Rear ports

Pentium models: Two USB 2.0, ethernet (RJ-45), DC-IN
Core i3 models: Two USB 2.0, ethernet (RJ-45), HDMI-out, DC-IN

Side ports

Pentium models: One USB 3.0, one microphone / headphone combo jack (3.5mm)
Core i3 models: One USB 3.0 (charging port), one microphone / headphone combo jack (3.5mm), 7-in-1 card reader

ExpressCard

None

PCIe Mini Card

One PCI Express Mini Card slot (half size, for WLAN)

Audio support

High Definition (HD) Audio, Realtek ALC233 (Pentium models) or Conexant CX20751 (Core i3 models) / internal speakers (3watt x 2)

WLAN[13]

Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi + Bluetooth combo adapter, 1x1
Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8192EE, Wi-Fi + Bluetooth combo adapter, 2x2
Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Some: 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111G, Wake on LAN®

vPro & iAMT

None

Security chip

None

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), Lenovo logo

Mouse

Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver)
Some: Enhanced Optical USB Mouse, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver)

Mechanical

- Business black or white
- Support VESA mount (100mm)
- Optional frame stand

Dimensions *(WxDxH)*	Weight (Maximum)	Adjustments
E63z non-touch with frame stand		
19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	8.82 lb (4 kg)	Tilt: 10° to 60° back
E63z touch with frame stand		
19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	10.58 lb (4.8 kg)	Tilt: 10° to 60° back

Power supply

65 watts external adapter, autosensing, 88% PSU, 100-240V (50-60Hz)

Limited warranty[3]

Some: **1-year or 3-years**, **limited onsite service** / service upgrades available
Some: **1-year or 3-years**, **Depot or Carry-in** / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Lenovo SHAREit
- BlueTooth Security Lock
- Desktop Power Manager
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Nitro Pro

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 8.1 with Bing 64-bit

Web install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage System Update
- ThinkVantage AutoLock
- Lenovo SHAREit
- BlueTooth Security Lock
- Desktop Power Manager
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Nitro Pro
- AccuWeather
- Norton™ Studio
- Pokki
- Hightail

Environment

EPEAT™ Gold (For Windows models only); ENERGY STAR® 6.0 (For Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

See footnotes for more detailed information

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ThinkCentre E63z (10D4) - TopSeller

Product Specifications Reference (PSREF)

Model	Display	Multi-Touch	Processor	Graphics	Media Reader	Camera	Memory	Storage	Optical	WLAN	Floor Stand	Keyboard / Mouse	Color	Preload	Base Warranty (year)	Gobal	Ann Date (mm/yy)
10D40004US	19.5" HD+	None	Pentium J2900	Intel HD	None	720p	4GBx1	500GB 7200	None	RTL8723BE	Frame	USB (slim)	black	Win7 P64 DG Win8.1	1-onsite	No	08/14
10D40005US	19.5" HD+	None	Pentium J2900	Intel HD	None	None	2GBx1	500GB 7200	None	RTL8723BE	Frame	USB (slim)	black	Win7 P64 DG Win8.1	1-onsite	No	08/14

- *For detailed platform specifications, please see ThinkCentre E63z Platform Specifications sheet*

Processor

Intel® Pentium® or 4th Generation Intel Core™ i3 Processor

Processor	Cores / Threads	Clock Speed	Max Burst Frequency	Cache	Memory Types	Integrated Graphics
Pentium J2900	4 / 4	2.41 GHz	2.66 GHz	2MB	DDR3L-1333	Intel HD
Core i3-4005U	2 / 4	1.7 Ghz	-	3MB	DDR3L-1600	Intel HD 4400

* System-on-Chip (SoC) solution, integrates Intel processor core, Graphics, Memory Controller, and I/O interfaces

Memory

Pentium models: 8GB max[7] / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
Core i3 models: 16GB max[7] / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets
*System automatically clocks down for 1333MHz DDR3 memory controller

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: 500GB (5400 rpm) or 1TB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

None

SATA controller

Pentium models: Serial ATA, SATA 3.0Gb/s support, integrated in processor
Core i3 models: Serial ATA, SATA 6.0Gb/s support, integrated in processor

Media reader

Optional 7-in-1 media card reader (Core i3 models only)

Graphics

Intel HD Graphics or **Intel HD Graphics 4400** in processor, uses main memory, *Maximum resolution:* 1600x900@60Hz (panel); 2560x1600@60Hz (HDMI-out)

Display

19.5" (495.3mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°), frameless for touch models, frame for non-touch models

Multi-touch

Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

Camera

Some: 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator

Controls

Power button on right side

Chipset

Intel System-on-Chip (SoC) platform

Rear ports

Pentium models: Two USB 2.0, ethernet (RJ-45), DC-IN
Core i3 models: Two USB 2.0, ethernet (RJ-45), HDMI-out, DC-IN

Side ports

Pentium models: One USB 3.0, one microphone / headphone combo jack (3.5mm)
Core i3 models: One USB 3.0 (charging port), one microphone / headphone combo jack (3.5mm), 7-in-1 card reader

PCIe Mini Card

One PCI Express Mini Card slot (half size, for WLAN)

Audio support

High Definition (HD) Audio, Realtek ALC233 (Pentium models) or Conexant CX20751 (Core i3 models) / internal speakers (3watt x 2)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo
Some: 11ac/a/b/g/n, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111G, Wake on LAN®

vPro & iAMT

None

Security chip

None

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), Lenovo logo

Mouse

Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver)
Some: Enhanced Optical USB Mouse, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver)

Mechanical

- Business black or white
- Support VESA mount (100mm)
- Optional frame stand

Dimensions *(WxDxH)*	Weight (Maximum)	Adjustments
E63z non-touch with frame stand		
19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	8.82 lb (4 kg)	Tilt: 10° to 60° back
E63z touch with frame stand		
19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	10.58 lb (4.8 kg)	Tilt: 10° to 60° back

Power supply

65 watts external adapter, autosensing, 88% PSU, 100-240V (50-60Hz)

Limited warranty[3]

Some: **1-year or 3-years**, **limited onsite service** / service upgrades available
Some: **1-year or 3-years**, **Depot or Carry-in** / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 8.1 with Bing 64-bit

Environment

ENERGY STAR® 6.0 (For Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

See footnotes for more detailed information

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ThinkCentre E63z (10D6) - Multi-touch (TopSeller)

Product Specifications Reference (PSREF)

Model	Display	Multi-Touch	Processor	Graphics	Media Reader	Camera	Memory	Storage	Optical	WLAN	Floor Stand	Keyboard / Mouse	Color	Preload	Base Warranty (year)	Gobal	Ann Date (mm/yy)
10D60005US	19.5" HD+	Touch	Pentium J2900	Intel HD	None	720p	4GBx1	500GB 7200	None	RTL8723BE	Frame	USB (slim)	black	Win7 P64 DG Win8.1	1-onsite	No	08/14
10D60006US	19.5" HD+	Touch	Pentium J2900	Intel HD	None	720p	4GBx1	500GB 7200	None	7260 b/g/n	Frame	USB (slim)	black	Win7 P64 DG Win8.1	1-onsite	No	08/14
10D60007US	19.5" HD+	Touch	Pentium J2900	Intel HD	None	None	2GBx1	500GB 7200	None	RTL8723BE	Frame	USB (slim)	black	Win7 P64 DG Win8.1	1-onsite	No	08/14

- *For detailed platform specifications, please see ThinkCentre E63z Platform Specifications sheet*

Processor

Intel® Pentium® or 4th Generation Intel Core™ i3 Processor

Processor	Cores / Threads	Clock Speed	Max Burst Frequency	Cache	Memory Types	Integrated Graphics
Pentium J2900	4 / 4	2.41 GHz	2.66 GHz	2MB	DDR3L-1333	Intel HD
Core i3-4005U	2 / 4	1.7 Ghz	-	3MB	DDR3L-1600	Intel HD 4400

* System-on-Chip (SoC) solution, integrates Intel processor core, Graphics, Memory Controller, and I/O interfaces

Memory

Pentium models: 8GB max[7] / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
Core i3 models: 16GB max[7] / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets
*System automatically clocks down for 1333MHz DDR3 memory controller

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: 500GB (5400 rpm) or 1TB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

None

SATA controller

Pentium models: Serial ATA, SATA 3.0Gb/s support, integrated in processor
Core i3 models: Serial ATA, SATA 6.0Gb/s support, integrated in processor

Media reader

Optional 7-in-1 media card reader (Core i3 models only)

Graphics

Intel HD Graphics or **Intel HD Graphics 4400** in processor, uses main memory, *Maximum resolution:* 1600x900@60Hz (panel); 2560x1600@60Hz (HDMI-out)

Display

19.5" (495.3mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°), frameless for touch models, frame for non-touch models

Multi-touch

Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

Camera

Some: 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator

Controls

Power button on right side

Chipset

Intel System-on-Chip (SoC) platform

Rear ports

Pentium models: Two USB 2.0, ethernet (RJ-45), DC-IN
Core i3 models: Two USB 2.0, ethernet (RJ-45), HDMI-out, DC-IN

Side ports

Pentium models: One USB 3.0, one microphone / headphone combo jack (3.5mm)
Core i3 models: One USB 3.0 (charging port), one microphone / headphone combo jack (3.5mm), 7-in-1 card reader

PCIe Mini Card

One PCI Express Mini Card slot (half size, for WLAN)

Audio support

High Definition (HD) Audio, Realtek ALC233 (Pentium models) or Conexant CX20751 (Core i3 models) / internal speakers (3watt x 2)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo
Some: 11ac/a/b/g/n, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111G, Wake on LAN®

vPro & iAMT

None

Security chip

None

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), Lenovo logo

Mouse

Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver)
Some: Enhanced Optical USB Mouse, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver)

Mechanical

- Business black or white
- Support VESA mount (100mm)
- Optional frame stand

Dimensions *(WxDxH)*	Weight (Maximum)	Adjustments
E63z non-touch with frame stand		
19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	8.82 lb (4 kg)	Tilt: 10° to 60° back
E63z touch with frame stand		
19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	10.58 lb (4.8 kg)	Tilt: 10° to 60° back

Power supply

65 watts external adapter, autosensing, 88% PSU, 100-240V (50-60Hz)

Limited warranty[3]

Some: **1-year or 3-years**, **limited onsite service** / service upgrades available
Some: **1-year or 3-years**, **Depot or Carry-in** / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 8.1 with Bing 64-bit

Environment

ENERGY STAR® 6.0 (For Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

See footnotes for more detailed information

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ThinkCentre E63z (10E0) - TopSeller

Product Specifications Reference (PSREF)

Model	Display	Multi-Touch	Processor	Graphics	Media Reader	Camera	Memory	Storage	Optical	WLAN	Floor Stand	Keyboard / Mouse	Color	Preload	Base Warranty (year)	Gobal	Ann Date (mm/yy)
10E00027US	19.5" HD+	None	i3-4005U	HD 4400	7-in-1	720p	4GBx1	500GB 7200	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	1-onsite	No	11/14
10E00028US	19.5" HD+	None	i3-4005U	HD 4400	7-in-1	720p	8GBx1	500GB 7200	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	1-onsite	No	11/14
10E00029US	19.5" HD+	None	i3-4005U	HD 4400	7-in-1	720p	2GBx1	500GB 7200	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	1-onsite	No	11/14
10E0002AUS	19.5" HD+	None	i3-4005U	HD 4400	7-in-1	720p	4GBx1	64GB SSD	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	1-onsite	No	11/14
10E0002BUS	19.5" HD+	None	i3-4005U	HD 4400	7-in-1	720p	4GBx1	180GB SSD	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	1-onsite	No	11/14

- *For detailed platform specifications, please see ThinkCentre E63z Platform Specifications sheet*

Processor

Intel® Pentium® or 4th Generation Intel Core™ i3 Processor

Processor	Cores / Threads	Clock Speed	Max Burst Frequency	Cache	Memory Types	Integrated Graphics
Pentium J2900	4 / 4	2.41 GHz	2.66 GHz	2MB	DDR3L-1333	Intel HD
Core i3-4005U	2 / 4	1.7 Ghz	-	3MB	DDR3L-1600	Intel HD 4400

* System-on-Chip (SoC) solution, integrates Intel processor core, Graphics, Memory Controller, and I/O interfaces

Memory

Pentium models: 8GB max[7] / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
Core i3 models: 16GB max[7] / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets
*System automatically clocks down for 1333MHz DDR3 memory controller

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: 500GB (5400 rpm) or 1TB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

None

SATA controller

Pentium models: Serial ATA, SATA 3.0Gb/s support, integrated in processor
Core i3 models: Serial ATA, SATA 6.0Gb/s support, integrated in processor

Media reader

Optional 7-in-1 media card reader (Core i3 models only)

Graphics

Intel HD Graphics or **Intel HD Graphics 4400** in processor, uses main memory, *Maximum resolution:* 1600x900@60Hz (panel); 2560x1600@60Hz (HDMI-out)

Display

19.5" (495.3mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°), frameless for touch models, frame for non-touch models

Multi-touch

Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

Camera

Some: 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator

Controls

Power button on right side

Chipset

Intel System-on-Chip (SoC) platform

Rear ports

Pentium models: Two USB 2.0, ethernet (RJ-45), DC-IN
Core i3 models: Two USB 2.0, ethernet (RJ-45), HDMI-out, DC-IN

Side ports

Pentium models: One USB 3.0, one microphone / headphone combo jack (3.5mm)
Core i3 models: One USB 3.0 (charging port), one microphone / headphone combo jack (3.5mm), 7-in-1 card reader

PCIe Mini Card

One PCI Express Mini Card slot (half size, for WLAN)

Audio support

High Definition (HD) Audio, Realtek ALC233 (Pentium models) or Conexant CX20751 (Core i3 models) / internal speakers (3watt x 2)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo
Some: 11ac/a/b/g/n, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111G, Wake on LAN®

vPro & iAMT

None

Security chip

None

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), Lenovo logo

Mouse

Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver)
Some: Enhanced Optical USB Mouse, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver)

Mechanical

- Business black or white
- Support VESA mount (100mm)
- Optional frame stand

Dimensions *(WxDxH)*	Weight (Maximum)	Adjustments
E63z non-touch with frame stand		
19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	8.82 lb (4 kg)	Tilt: 10° to 60° back
E63z touch with frame stand		
19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	10.58 lb (4.8 kg)	Tilt: 10° to 60° back

Power supply

65 watts external adapter, autosensing, 88% PSU, 100-240V (50-60Hz)

Limited warranty[3]

Some: **1-year or 3-years**, **limited onsite service** / service upgrades available
Some: **1-year or 3-years**, **Depot or Carry-in** / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 8.1 with Bing 64-bit

Environment

ENERGY STAR® 6.0 (For Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

See footnotes for more detailed information

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ThinkCentre E63z (10E2) - Multi-touch (TopSeller)

Product Specifications Reference (PSREF)

Model	Display	Multi-Touch	Processor	Graphics	Media Reader	Camera	Memory	Storage	Optical	WLAN	Floor Stand	Keyboard / Mouse	Color	Preload	Base Warranty (year)	Gobal	Ann Date (mm/yy)
10E2001QUS	19.5" HD+	Touch	i3-4005U	HD 4400	7-in-1	720p	4GBx1	500GB 7200	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	1-onsite	No	11/14
10E2001RUS	19.5" HD+	Touch	i3-4005U	HD 4400	7-in-1	720p	4GBx1	180GB SSD	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	1-onsite	No	11/14
10E2001SUS	19.5" HD+	Touch	i3-4005U	HD 4400	7-in-1	720p	8GBx1	500GB 7200	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	1-onsite	No	11/14
10E2001TUS	19.5" HD+	Touch	i3-4005U	HD 4400	7-in-1	720p	4GBx1	128GB SSD	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	1-onsite	No	11/14
10E2001UUS	19.5" HD+	Touch	i3-4005U	HD 4400	7-in-1	720p	8GBx1	256GB SSD OPAL	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	1-onsite	No	11/14

- *For detailed platform specifications, please see ThinkCentre E63z Platform Specifications sheet*

Processor

Intel® Pentium® or 4th Generation Intel Core™ i3 Processor

Processor	Cores / Threads	Clock Speed	Max Burst Frequency	Cache	Memory Types	Integrated Graphics
Pentium J2900	4 / 4	2.41 GHz	2.66 GHz	2MB	DDR3L-1333	Intel HD
Core i3-4005U	2 / 4	1.7 Ghz	-	3MB	DDR3L-1600	Intel HD 4400

* System-on-Chip (SoC) solution, integrates Intel processor core, Graphics, Memory Controller, and I/O interfaces

Memory

Pentium models: 8GB max[7] / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
Core i3 models: 16GB max[7] / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets
*System automatically clocks down for 1333MHz DDR3 memory controller

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: 500GB (5400 rpm) or 1TB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

None

SATA controller

Pentium models: Serial ATA, SATA 3.0Gb/s support, integrated in processor
Core i3 models: Serial ATA, SATA 6.0Gb/s support, integrated in processor

Media reader

Optional 7-in-1 media card reader (Core i3 models only)

Graphics

Intel HD Graphics or **Intel HD Graphics 4400** in processor, uses main memory, *Maximum resolution:* 1600x900@60Hz (panel); 2560x1600@60Hz (HDMI-out)

Display

19.5" (495.3mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°), frameless for touch models, frame for non-touch models

Multi-touch

Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

Camera

Some: 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator

Controls

Power button on right side

Chipset

Intel System-on-Chip (SoC) platform

Rear ports

Pentium models: Two USB 2.0, ethernet (RJ-45), DC-IN
Core i3 models: Two USB 2.0, ethernet (RJ-45), HDMI-out, DC-IN

Side ports

Pentium models: One USB 3.0, one microphone / headphone combo jack (3.5mm)
Core i3 models: One USB 3.0 (charging port), one microphone / headphone combo jack (3.5mm), 7-in-1 card reader

PCIe Mini Card

One PCI Express Mini Card slot (half size, for WLAN)

Audio support

High Definition (HD) Audio, Realtek ALC233 (Pentium models) or Conexant CX20751 (Core i3 models) / internal speakers (3watt x 2)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo
Some: 11ac/a/b/g/n, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111G, Wake on LAN®

vPro & iAMT

None

Security chip

None

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), Lenovo logo

Mouse

Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver)
Some: Enhanced Optical USB Mouse, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver)

Mechanical

- Business black or white
- Support VESA mount (100mm)
- Optional frame stand

Dimensions *(WxDxH)*	Weight (Maximum)	Adjustments
E63z non-touch with frame stand		
19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	8.82 lb (4 kg)	Tilt: 10° to 60° back
E63z touch with frame stand		
19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	10.58 lb (4.8 kg)	Tilt: 10° to 60° back

Power supply

65 watts external adapter, autosensing, 88% PSU, 100-240V (50-60Hz)

Limited warranty[3]

Some: **1-year or 3-years**, **limited onsite service** / service upgrades available
Some: **1-year or 3-years**, **Depot or Carry-in** / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 8.1 with Bing 64-bit

Environment

ENERGY STAR® 6.0 (For Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

See footnotes for more detailed information

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ThinkCentre E63z (10D5)

Product Specifications Reference (PSREF)

Model	Display	Multi-Touch	Processor	Graphics	Media Reader	Camera	Memory	Storage	Optical	WLAN	Floor Stand	Keyboard / Mouse	Color	Preload	Base Warranty (year)	Gobal	Ann Date (mm/yy)
10D5000FUS	19.5" HD+	None	Pentium J2900	Intel HD	None	720p	4GBx1	500GB 7200	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	3-onsite	No	08/14

- *For detailed platform specifications, please see ThinkCentre E63z Platform Specifications sheet*

Processor

Intel® Pentium® or 4th Generation Intel Core™ i3 Processor

Processor	Cores / Threads	Clock Speed	Max Burst Frequency	Cache	Memory Types	Integrated Graphics
Pentium J2900	4 / 4	2.41 GHz	2.66 GHz	2MB	DDR3L-1333	Intel HD
Core i3-4005U	2 / 4	1.7 Ghz	-	3MB	DDR3L-1600	Intel HD 4400

* System-on-Chip (SoC) solution, integrates Intel processor core, Graphics, Memory Controller, and I/O interfaces

Memory

Pentium models: 8GB max[7] / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
Core i3 models: 16GB max[7] / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets
*System automatically clocks down for 1333MHz DDR3 memory controller

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: 500GB (5400 rpm) or 1TB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

None

SATA controller

Pentium models: Serial ATA, SATA 3.0Gb/s support, integrated in processor
Core i3 models: Serial ATA, SATA 6.0Gb/s support, integrated in processor

Media reader

Optional 7-in-1 media card reader (Core i3 models only)

Graphics

Intel HD Graphics or **Intel HD Graphics 4400** in processor, uses main memory, *Maximum resolution:* 1600x900@60Hz (panel); 2560x1600@60Hz (HDMI-out)

Display

19.5" (495.3mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°), frameless for touch models, frame for non-touch models

Multi-touch

Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

Camera

Some: 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator

Controls

Power button on right side

Chipset

Intel System-on-Chip (SoC) platform

Rear ports

Pentium models: Two USB 2.0, ethernet (RJ-45), DC-IN
Core i3 models: Two USB 2.0, ethernet (RJ-45), HDMI-out, DC-IN

Side ports

Pentium models: One USB 3.0, one microphone / headphone combo jack (3.5mm)
Core i3 models: One USB 3.0 (charging port), one microphone / headphone combo jack (3.5mm), 7-in-1 card reader

PCIe Mini Card

One PCI Express Mini Card slot (half size, for WLAN)

Audio support

High Definition (HD) Audio, Realtek ALC233 (Pentium models) or Conexant CX20751 (Core i3 models) / internal speakers (3watt x 2)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo
Some: 11ac/a/b/g/n, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111G, Wake on LAN®

vPro & iAMT

None

Security chip

None

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), Lenovo logo

Mouse

Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver)
Some: Enhanced Optical USB Mouse, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver)

Mechanical

- Business black or white
- Support VESA mount (100mm)
- Optional frame stand

Dimensions *(WxDxH)*	Weight (Maximum)	Adjustments
E63z non-touch with frame stand		
19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	8.82 lb (4 kg)	Tilt: 10° to 60° back
E63z touch with frame stand		
19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	10.58 lb (4.8 kg)	Tilt: 10° to 60° back

Power supply

65 watts external adapter, autosensing, 88% PSU, 100-240V (50-60Hz)

Limited warranty[3]

Some: **1-year or 3-years**, **limited onsite service** / service upgrades available
Some: **1-year or 3-years**, **Depot or Carry-in** / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 8.1 with Bing 64-bit

Environment

ENERGY STAR® 6.0 (For Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

See footnotes for more detailed information

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ThinkCentre E63z (10D7) - Multi-touch

Product Specifications Reference (PSREF)

Model	Display	Multi-Touch	Processor	Graphics	Media Reader	Camera	Memory	Storage	Optical	WLAN	Floor Stand	Keyboard / Mouse	Color	Preload	Base Warranty (year)	Gobal	Ann Date (mm/yy)
10D7000KUS	19.5" HD+	Touch	Pentium J2900	Intel HD	None	720p	4GBx1	500GB 7200	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	3-onsite	No	08/14
10D7000HUS	19.5" HD+	Touch	Pentium J2900	Intel HD	None	720p	8GBx1	500GB 7200	None	7260 ac	Frame	USB	black	Win7 P64 DG Win8.1	3-onsite	No	08/14

- *For detailed platform specifications, please see ThinkCentre E63z Platform Specifications sheet*

Processor

Intel® Pentium® or 4th Generation Intel Core™ i3 Processor

Processor	Cores / Threads	Clock Speed	Max Burst Frequency	Cache	Memory Types	Integrated Graphics
Pentium J2900	4 / 4	2.41 GHz	2.66 GHz	2MB	DDR3L-1333	Intel HD
Core i3-4005U	2 / 4	1.7 Ghz	-	3MB	DDR3L-1600	Intel HD 4400

* System-on-Chip (SoC) solution, integrates Intel processor core, Graphics, Memory Controller, and I/O interfaces

Memory

Pentium models: 8GB max[7] / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
Core i3 models: 16GB max[7] / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets
*System automatically clocks down for 1333MHz DDR3 memory controller

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: 500GB (5400 rpm) or 1TB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical
None

SATA controller
Pentium models: Serial ATA, SATA 3.0Gb/s support, integrated in processor
Core i3 models: Serial ATA, SATA 6.0Gb/s support, integrated in processor

Media reader
Optional 7-in-1 media card reader (Core i3 models only)

Graphics
Intel HD Graphics or **Intel HD Graphics 4400** in processor, uses main memory, *Maximum resolution:* 1600x900@60Hz (panel); 2560x1600@60Hz (HDMI-out)

Display
19.5" (495.3mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°), frameless for touch models, frame for non-touch models

Multi-touch
Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

Camera
Some: 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator

Controls
Power button on right side

Chipset
Intel System-on-Chip (SoC) platform

Rear ports
Pentium models: Two USB 2.0, ethernet (RJ-45), DC-IN
Core i3 models: Two USB 2.0, ethernet (RJ-45), HDMI-out, DC-IN

Side ports
Pentium models: One USB 3.0, one microphone / headphone combo jack (3.5mm)
Core i3 models: One USB 3.0 (charging port), one microphone / headphone combo jack (3.5mm), 7-in-1 card reader

PCIe Mini Card
One PCI Express Mini Card slot (half size, for WLAN)

Audio support
High Definition (HD) Audio, Realtek ALC233 (Pentium models) or Conexant CX20751 (Core i3 models) / internal speakers (3watt x 2)

WLAN[13]
Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo
Some: 11ac/a/b/g/n, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet
One gigabit ethernet port, Realtek RTL8111G, Wake on LAN®

vPro & iAMT
None

Security chip
None

Security features
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement

Keyboard
Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), Lenovo logo

Mouse
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver)
Some: Enhanced Optical USB Mouse, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver)

Mechanical
- Business black or white
- Support VESA mount (100mm)
- Optional frame stand

Dimensions *(WxDxH)*	Weight (Maximum)	Adjustments
E63z non-touch with frame stand		
19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	8.82 lb (4 kg)	Tilt: 10° to 60° back
E63z touch with frame stand		
19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	10.58 lb (4.8 kg)	Tilt: 10° to 60° back

Power supply
65 watts external adapter, autosensing, 88% PSU, 100-240V (50-60Hz)

Limited warranty[3]
Some: **1-year or 3-years**, **limited onsite service** / service upgrades available
Some: **1-year or 3-years**, **Depot or Carry-in** / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 8.1 with Bing 64-bit

Environment
ENERGY STAR® 6.0 (For Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

See footnotes for more detailed information

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ThinkCentre E63z (10E1)

Product Specifications Reference (PSREF)

Model	Display	Multi-Touch	Processor	Graphics	Media Reader	Camera	Memory	Storage	Optical	WLAN	Floor Stand	Keyboard / Mouse	Color	Preload	Base Warranty (year)	Gobal	Ann Date (mm/yy)
10E10002US	19.5" HD+	None	i3-4005U	HD 4400	7-in-1	720p	4GBx1	500GB 7200	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	3-onsite	No	11/14
10E10005US	19.5" HD+	None	i3-4005U	HD 4400	7-in-1	720p	4GBx1	180GB SSD	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	3-onsite	No	11/14
10E10006US	19.5" HD+	None	i3-4005U	HD 4400	7-in-1	720p	8GBx1	256GB SSD OPAL	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	3-onsite	No	11/14
10E10007US	19.5" HD+	None	i3-4005U	HD 4400	7-in-1	720p	4GBx1	64GB SSD	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	3-onsite	No	11/14
10E10008US	19.5" HD+	None	i3-4005U	HD 4400	7-in-1	720p	8GBx1	500GB 7200	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	3-onsite	No	11/14

- *For detailed platform specifications, please see ThinkCentre E63z Platform Specifications sheet*

Processor

Intel® Pentium® or 4th Generation Intel Core™ i3 Processor

Processor	Cores / Threads	Clock Speed	Max Burst Frequency	Cache	Memory Types	Integrated Graphics
Pentium J2900	4 / 4	2.41 GHz	2.66 GHz	2MB	DDR3L-1333	Intel HD
Core i3-4005U	2 / 4	1.7 Ghz	-	3MB	DDR3L-1600	Intel HD 4400

* System-on-Chip (SoC) solution, integrates Intel processor core, Graphics, Memory Controller, and I/O interfaces

Memory

Pentium models: 8GB max[7] / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
Core i3 models: 16GB max[7] / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets
*System automatically clocks down for 1333MHz DDR3 memory controller

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: 500GB (5400 rpm) or 1TB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

None

SATA controller

Pentium models: Serial ATA, SATA 3.0Gb/s support, integrated in processor
Core i3 models: Serial ATA, SATA 6.0Gb/s support, integrated in processor

Media reader

Optional 7-in-1 media card reader (Core i3 models only)

Graphics

Intel HD Graphics or **Intel HD Graphics 4400** in processor, uses main memory, *Maximum resolution:* 1600x900@60Hz (panel); 2560x1600@60Hz (HDMI-out)

Display

19.5" (495.3mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°), frameless for touch models, frame for non-touch models

Multi-touch

Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

Camera

Some: 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator

Controls

Power button on right side

Chipset

Intel System-on-Chip (SoC) platform

Rear ports

Pentium models: Two USB 2.0, ethernet (RJ-45), DC-IN
Core i3 models: Two USB 2.0, ethernet (RJ-45), HDMI-out, DC-IN

Side ports

Pentium models: One USB 3.0, one microphone / headphone combo jack (3.5mm)
Core i3 models: One USB 3.0 (charging port), one microphone / headphone combo jack (3.5mm), 7-in-1 card reader

PCIe Mini Card

One PCI Express Mini Card slot (half size, for WLAN)

Audio support

High Definition (HD) Audio, Realtek ALC233 (Pentium models) or Conexant CX20751 (Core i3 models) / internal speakers (3watt x 2)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo
Some: 11ac/a/b/g/n, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111G, Wake on LAN®

vPro & iAMT

None

Security chip

None

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), Lenovo logo

Mouse

Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver)
Some: Enhanced Optical USB Mouse, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver)

Mechanical

- Business black or white
- Support VESA mount (100mm)
- Optional frame stand

Dimensions *(WxDxH)*	Weight (Maximum)	Adjustments
E63z non-touch with frame stand		
19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	8.82 lb (4 kg)	Tilt: 10° to 60° back
E63z touch with frame stand		
19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	10.58 lb (4.8 kg)	Tilt: 10° to 60° back

Power supply

65 watts external adapter, autosensing, 88% PSU, 100-240V (50-60Hz)

Limited warranty[3]

Some: **1-year or 3-years**, **limited onsite service** / service upgrades available
Some: **1-year or 3-years**, **Depot or Carry-in** / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 8.1 with Bing 64-bit

Environment

ENERGY STAR® 6.0 (For Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

See footnotes for more detailed information

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ThinkCentre E63z (10E3) - Multi-touch

Product Specifications Reference (PSREF)

Model	Display	Multi-Touch	Processor	Graphics	Media Reader	Camera	Memory	Storage	Optical	WLAN	Floor Stand	Keyboard / Mouse	Color	Preload	Base Warranty (year)	Gobal	Ann Date (mm/yy)
10E30007US	19.5" HD+	Touch	i3-4005U	HD 4400	7-in-1	720p	4GBx1	500GB 7200	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	3-onsite	No	11/14
10E30008US	19.5" HD+	Touch	i3-4005U	HD 4400	7-in-1	720p	4GBx1	180GB SSD	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	3-onsite	No	11/14
10E30009US	19.5" HD+	Touch	i3-4005U	HD 4400	7-in-1	720p	8GBx1	500GB 7200	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	3-onsite	No	11/14
10E3000AUS	19.5" HD+	Touch	i3-4005U	HD 4400	7-in-1	720p	8GBx1	256GB SSD OPAL	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	3-onsite	No	11/14

- *For detailed platform specifications, please see ThinkCentre E63z Platform Specifications sheet*

Processor

Intel® Pentium® or 4th Generation Intel Core™ i3 Processor

Processor	Cores / Threads	Clock Speed	Max Burst Frequency	Cache	Memory Types	Integrated Graphics
Pentium J2900	4 / 4	2.41 GHz	2.66 GHz	2MB	DDR3L-1333	Intel HD
Core i3-4005U	2 / 4	1.7 Ghz	-	3MB	DDR3L-1600	Intel HD 4400

* System-on-Chip (SoC) solution, integrates Intel processor core, Graphics, Memory Controller, and I/O interfaces

Memory

Pentium models: 8GB max[7] / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
Core i3 models: 16GB max[7] / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets
*System automatically clocks down for 1333MHz DDR3 memory controller

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: 500GB (5400 rpm) or 1TB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

None

SATA controller

Pentium models: Serial ATA, SATA 3.0Gb/s support, integrated in processor
Core i3 models: Serial ATA, SATA 6.0Gb/s support, integrated in processor

Media reader

Optional 7-in-1 media card reader (Core i3 models only)

Graphics

Intel HD Graphics or **Intel HD Graphics 4400** in processor, uses main memory, *Maximum resolution:* 1600x900@60Hz (panel); 2560x1600@60Hz (HDMI-out)

Display

19.5" (495.3mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°), frameless for touch models, frame for non-touch models

Multi-touch

Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

Camera

Some: 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator

Controls

Power button on right side

Chipset

Intel System-on-Chip (SoC) platform

Rear ports

Pentium models: Two USB 2.0, ethernet (RJ-45), DC-IN
Core i3 models: Two USB 2.0, ethernet (RJ-45), HDMI-out, DC-IN

Side ports

Pentium models: One USB 3.0, one microphone / headphone combo jack (3.5mm)
Core i3 models: One USB 3.0 (charging port), one microphone / headphone combo jack (3.5mm), 7-in-1 card reader

PCIe Mini Card

One PCI Express Mini Card slot (half size, for WLAN)

Audio support

High Definition (HD) Audio, Realtek ALC233 (Pentium models) or Conexant CX20751 (Core i3 models) / internal speakers (3watt x 2)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo
Some: 11ac/a/b/g/n, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111G, Wake on LAN®

vPro & iAMT

None

Security chip

None

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), Lenovo logo

Mouse

Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver)
Some: Enhanced Optical USB Mouse, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver)

Mechanical

- Business black or white
- Support VESA mount (100mm)
- Optional frame stand

Dimensions *(WxDxH)*	Weight (Maximum)	Adjustments
E63z non-touch with frame stand		
19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	8.82 lb (4 kg)	Tilt: 10° to 60° back
E63z touch with frame stand		
19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	10.58 lb (4.8 kg)	Tilt: 10° to 60° back

Power supply

65 watts external adapter, autosensing, 88% PSU, 100-240V (50-60Hz)

Limited warranty[3]

Some: **1-year or 3-years**, **limited onsite service** / service upgrades available
Some: **1-year or 3-years**, **Depot or Carry-in** / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 8.1 with Bing 64-bit

Environment

ENERGY STAR® 6.0 (For Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

See footnotes for more detailed information

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ThinkCentre E73 SFF and Tower

ThinkCentre E73 Tower
with Dual Lenovo ThinkVision Monitors

ThinkCentre E73 SFF

ThinkCentre E73 SFF

ThinkCentre E73 Tower

ThinkCentre E73 SFF
with HDD and optional SSD

ThinkCentre E73 SFF (10AU) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Parallel port	Serial port	Floor stand	Keyboard / mouse	Global	Preload	Ann date *(mm/dd/yy)*
10AU002MUS	3x4	i5-4430S	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	Serial	None	USB	None	Win7 Pro64 (DG)	10/22/13
10AU002PUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	Parallel	Serial	Stand	USB(slim)	None	Win7 Pro64 (DG)	10/22/13
10AU002QUS	3x4	G3220	2GBx1	500G 7200	DVD±RW	None	None	Intel HD	Parallel	Serial	Stand	USB(slim)	None	Win7 Pro64 (DG)	10/22/13
10AU002RUS	3x4	i5-4570S	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	Parallel	Serial	Stand	USB(slim)	None	Win7 Pro64 (DG)	10/22/13
10AU00EUUS	3x4	i5-4460S	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	USB	None	Win7 P64 DG Win8.1	11/18/14
10AU00ETUS	3x4	i7-4790S	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	USB	None	Win7 P64 DG Win8.1	11/18/14
10AU00ERUS	3x4	G3240	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	None	USB	None	Win7 P64 DG Win8.1	11/18/14
10AU00ESUS	3x4	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	None	USB	None	Win7 P64 DG Win8.1	11/18/14

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning — *Stylish design, reliability, and productivity for small/medium businesses*

Processor — Intel® Pentium® or 4th Generation Intel Core™ i3 / i5 / i7 Processors

Processor	Cores / Threads	Frequency (Base/Max)	Cache	Memory Types	Integrated Graphics
Pentium G3240	2 / 2	3.1 GHz	3 MB	DDR3-1333	Intel HD
Pentium G3220	2 / 2	3 GHz	3 MB	DDR3-1333	Intel HD
Core i3-4150	2 / 4	3.5 GHz	3 MB	DDR3-1600	HD 4400
Core i3-4130	2 / 4	3.4 GHz	3 MB	DDR3-1600	HD 4400
Core i5-4570S	4 / 4	2.9 GHz / 3.6 GHz	6 MB	DDR3-1600	HD 4600
Core i5-4460S	4 / 4	2.9 GHz / 3.4 GHz	6 MB	DDR3-1600	HD 4600
Core i5-4430S	4 / 4	2.7 GHz / 3.2 GHz	6 MB	DDR3-1600	HD 4600
Core i7-4790S	4 / 8	3.2 GHz / 4 GHz	8 MB	DDR3-1600	HD 4600

Implementation — Processor in LGA1150 socket

Memory — 16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3***, two 240-pin DIMM sockets
*System automatically clocks down for processors with 1333MHz memory controller

Graphics — **Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display;
Maximum resolution: 2560x1600 (DisplayPort)@60Hz;
1920x1200 (VGA)@60Hz (Reduced Blanking)

DP dongle — None

Disk — *Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm

Optical — Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive

SATA controller — Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset

Onboard SATA — SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar

eSATA port — None

Media reader — Optional 9-in-1 media reader, internal USB 2.0

Chipset — **Intel H81 Express Chipset**

Front ports — Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

Rear ports — Two USB 3.0, two USB 2.0, optional serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DisplayPort

Rear audio ports — Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)

PCIe WLAN — None

Bluetooth — None

Audio — High Definition (HD) Audio, Realtek® ALC662 codec

Speaker — Internal speaker for business audio

IEEE 1394 — None

Ethernet — Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN

Manageability — None

Modem — None

Security chip — None

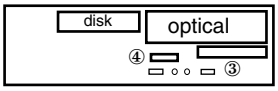
Keyboard — *Some:* Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Some: Lenovo® Slim USB Keyboard (USB connector), black, Lenovo logo

Mouse — Enhanced Optical USB Mouse, black, Lenovo logo

Floor Stand — Optional system floor stand for vertical orientation

Power supply — 180 watts, universal, autosensing

Machine
- Glossy black bezel; metal case
- 13.2" W X 15.0" D X 3.98" H
- 336mm W X 382mm D X 101mm H
- 13.2 lb (6.0 kg) in maximum configuration
- Highlighted optical drive button for easy access



Bay
Bay 1: 5.25", 1.6" high, access, std optical
Bay 2: 3.5", 1" high, no access, std disk
Bay 3: 2.5", N/A, no access, opt 2nd SSD*
Bay 4: 1.5", .35" high, access, optnl reader*
*bay only available on models with SSD/reader installed

Slot
Slot 1: Low Profile, PCI Express® 3.0 x16 (40w max)
Slot 2: Low Profile, PCIe 2.0 x1
Slot 3: Low Profile, PCIe 2.0 x1

Limited Warranty[1] — **1-year**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8/8.1 Pro 64-bit

Ready to install applications (only some listed)
- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)
- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- ThinkVantage Device Experience
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre E73 Tower (10AS) - TopSeller

Product Specifications Reference (PSREF)

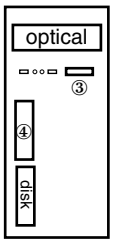
Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Parallel port	Serial port	Keyboard / mouse	Global	Preload	Ann date *(mm/dd/yy)*
10AS002JUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	Parallel	Serial	USB(slim)	None	Win7 Pro64 (DG)	10/22/13
10AS002KUS	3x4	i5-4570S	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	Parallel	Serial	USB(slim)	None	Win7 Pro64 (DG)	10/22/13
10AS005LUS	3x4	G3220	2GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	USB	None	Win7 Pro64 (DG)	12/10/13
10AS00DEUS	3x4	G3240	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	USB	None	Win7 P64 DG Win8.1	11/18/14
10AS00DFUS	3x4	i5-4460S	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	USB	None	Win7 P64 DG Win8.1	11/18/14
10AS00DGUS	3x4	i7-4790S	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	USB	None	Win7 P64 DG Win8.1	11/18/14
10AS00DDUS	3x4	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	USB	None	Win7 P64 DG Win8.1	11/18/14

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Stylish design, reliability, and productivity for small/medium businesses*
Processor	Intel® Pentium® or 4th Generation Intel Core™ i3 / i5 / i7 Processors

Processor	Cores / Threads	Frequency (Base/Max)	Cache	Memory Types	Integrated Graphics
Pentium G3240	2 / 2	3.1 GHz	3 MB	DDR3-1333	Intel HD
Pentium G3220	2 / 2	3 GHz	3 MB	DDR3-1333	Intel HD
Core i3-4150	2 / 4	3.5 GHz	3 MB	DDR3-1600	HD 4400
Core i3-4130	2 / 4	3.4 GHz	3 MB	DDR3-1600	HD 4400
Core i5-4570S	4 / 4	2.9 GHz / 3.6 GHz	6 MB	DDR3-1600	HD 4600
Core i5-4460S	4 / 4	2.9 GHz / 3.4 GHz	6 MB	DDR3-1600	HD 4600
Core i5-4430S	4 / 4	2.7 GHz / 3.2 GHz	6 MB	DDR3-1600	HD 4600
Core i7-4790S	4 / 8	3.2 GHz / 4 GHz	8 MB	DDR3-1600	HD 4600

Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3***, two 240-pin DIMM sockets *System automatically clocks down for processors with 1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, optional serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN
Manageability	None
Modem	None
Security chip	None
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo *Some:* Lenovo® Slim USB Keyboard (USB connector), black, Lenovo logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	180 watts, universal, autosensing
Machine	• Glossy black bezel; metal case • 6.3" W X 15.7" D X 15.6" H (with handle) • 160mm W X 400mm D X 397mm H • 16.5 lb (7.5 kg) in maximum configuration • Ergonomic rubberized handle • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 1.5", .35" high, access, optnl reader* Bay 4: 3.5", 1" high, no access, opt 2nd 2.5" disk** *bay only available on models with media reader installed **3.5" to 2.5" bracket comes with optional 2nd 2.5" disk
Slot	Slot 1: half-length, full-height, PCI Express® 3.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1
Limited Warranty[1]	**1-year**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8/8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- ThinkVantage Device Experience
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre E93z All-In-One

ThinkCentre E93z with Frame Stand

ThinkCentre E93z with Monitor Stand

ThinkCentre E93z with Frame Stand

ThinkCentre E93z with Monitor Stand

ThinkCentre E93z with Frame Stand

ThinkCentre E93z with Monitor Stand

ThinkCentre E93z All-In-One - II

ThinkCentre E93z with UltraFlex Stand

ThinkCentre E93z with UltraFlex Stand

ThinkCentre E93z with UltraFlex Stand

ThinkCentre E93z with UltraFlex Stand
with optional wireless mouse / keycoard
and Lenovo ThinkVision Monitor

ThinkCentre E93z with UltraFlex Stand

ThinkCentre E93z (handle)

ThinkCentre E93z (10B8) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[8]	Wide-screen display	Multi-Touch	Camera (mega-pixel)	Disk SATA GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Media reader	Stand type	Key-board/ Mouse	Preload	Ann date *(mm/dd/yy)*
10B80007US	i5-4430S	4GBx1	21.5" FHD	None	2.0M	500G 7200	DVD±RW	HD 4600	N2230	Media	Frame	USB	Win7 P64 DG Win8	08/27/13
10B80058US	i3-4130	4GBx1	21.5" FHD	None	2.0M	500G 7200	DVD±RW	HD 4400	N2230	Media	Frame	USB(slim)	Win7 P64 DG Win8	10/22/13
10B8007CUS	i5-4430S	4GBx1	21.5" FHD	None	2.0M	500G 7200	DVD±RW	HD 4600	N7260	Media	UltraFlex	USB	Win7 P64 DG Win8.1	04/08/14
10B8008KUS	i3-4130	4GBx1	21.5" FHD	None	2.0M	500G 7200	DVD±RW	HD 4400	N7260	Media	Monitor	USB	Win7 P64 DG Win8.1	12/16/14
10B8008LUS	i5-4430S	4GBx1	21.5" FHD	None	2.0M	500G 7200	DVD±RW	HD 4600	N7260	Media	Monitor	USB	Win7 P64 DG Win8.1	12/16/14

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX® 11.1, external digital monitor support via HDMI, supports dual independent display; *Max resolution:* 1920x1080 (panel)@60Hz; 1920x1080 (HDMI)@60Hz
Display	**21.5"** (546.1mm) **Full HD 1080p (1920x1080) TFT color**, wide viewing angle (+/- 85°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector
Light sensor	None
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Monitor mode / computer mode button, volume up/down buttons, and power button
Disk	SATA 3.0Gb/s, 2.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector and one SATA 3.0Gb/s connector on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel B85 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in
Side ports	Two USB 3.0 (one Always On USB 3.0), one headphone / microphone combo jack (stereo, 3.5mm), one optional media card reader
PCIe Mini Card	Two PCI Express® Mini Card slots
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V, Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283CG / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	None
Security chip	None
Keyboard	*Some:* Lenovo® Slim New F5 USB Keyboard (USB connector), black *Some:* Preferred Pro USB Keyboard (USB connector), Lenovo logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Color	Business black color
VESA mount	Support VESA mount (100mm)
Dimensions and weight (without stand)	*Non-touch models (WxDxH):* 21.02" X 1.91" X 15.20"; 534mm X 48.5mm X 386 mm 14.55 lb (6.6 kg) in maximum configuration *Touch models (WxDxH):* 21.02" X 1.95" X 15.20"; 534mm X 49.6mm X 386 mm 16.31 lb (7.4 kg) in maximum configuration
Stand	*Optional Frame Stand:* Adjustable between 10° and 65° (Tilt) *Optional Monitor Stand:* Adjustable between -5° and 45° (Tilt) *Optional UltraFlex Stand:* Tilt: 65° back, 0° forward; Lift: 110mm; Swivel: +/-90°; supports recline mode (from an upright position to an angled plane) and cable management
Limited Warranty	**1-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

ENERGY STAR® 6.0-compliant
EuP 2013
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre E93z (10B9) - NVIDIA (TopSeller)

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[8]	Wide-screen display	Multi-Touch	Camera (mega-pixel)	Disk SATA GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Media reader	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
10B9000SUS	i5-4430S	4GBx1	21.5" FHD	None	2.0M	500G 7200	DVD±RW	GT 720A	N2230	Media	Frame	USB	None	Win7 Pro64 DG	08/27/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, **Intel HD Graphics 4400/4600** in processor, and **NVIDIA GeForce® GT 720A**, PCI Express® x16, **1GB** memory, DirectX® 11, external digital monitor support via HDMI, supports dual independent display; *Max resolution:* 1920x1080 (panel)@60Hz; 1920x1080 (HDMI)@60Hz
Display	**21.5"** (546.1mm) **Full HD 1080p (1920x1080) TFT color**, wide viewing angle (+/- 85°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector
Light sensor	None
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Monitor mode / computer mode button, volume up/down buttons, and power button
Disk	SATA 3.0Gb/s, 2.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector and one SATA 3.0Gb/s connector on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel B85 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in
Side ports	Two USB 3.0 (one Always On USB 3.0), one headphone / microphone combo jack (stereo, 3.5mm), one optional media card reader
PCIe Mini Card	Two PCI Express® Mini Card slots
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V, Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283CG / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	180 watts, autosensing, 92% PSU
Color	Business black color
VESA mount	Support VESA mount (100mm)
Dimensions and weight (without stand)	*Non-touch models (WxDxH):* 21.02" X 1.91" X 15.20"; 534mm X 48.5mm X 386 mm 14.55 lb (6.6 kg) in maximum configuration *Touch models (WxDxH):* 21.02" X 1.95" X 15.20"; 534mm X 49.6mm X 386 mm 16.31 lb (7.4 kg) in maximum configuration
Stand	*Optional Frame Stand:* Adjustable between 10° and 65° (Tilt) *Optional Monitor Stand:* Adjustable between -5° and 45° (Tilt) *Optional UltraFlex Stand:* Tilt: 65° back, 0° forward; Lift: 110mm; Swivel: +/-90°; supports recline mode (from an upright position to an angled plane) and cable management
Limited Warranty	**1-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

ENERGY STAR® 6.0-compliant
EuP 2013
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced August 27, 2013

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ThinkCentre E93z (10BA) - Multi-touch (NVIDIA) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[8]	Wide-screen display	Multi-Touch	Camera (mega-pixel)	Disk SATA GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Media reader	Stand type	Key-board/ Mouse	War-ranty	Preload	Ann date *(mm/dd/yy)*
10BA000EUS	i7-4770S	4GBx1	21.5" FHD	Touch	2.0M	500G Hybrid	DVD±RW	GT 720A	N2230	Media	Frame	2.4G	1-year	Win7 Pro64 DG	08/27/13
10BA000FUS	i7-4770S	4GBx1	21.5" FHD	Touch	2.0M	500G Hybrid	DVD±RW	GT 720A	N2230	Media	UltraFlex	2.4G	1-year	Win7 Pro64 DG	08/27/13
10BA000GUS	i5-4430S	4GBx1	21.5" FHD	Touch	2.0M	500G 7200	DVD±RW	GT 720A	N2230	Media	Frame	USB	1-year	Win7 Pro64 DG	08/27/13
10BA000HUS	i5-4430S	8GBx1	21.5" FHD	Touch	2.0M	500G 7200	DVD±RW	GT 720A	N2230	Media	Frame	USB	1-year	Win7 Pro64 DG	08/27/13
10BA001LUS	i7-4770S	8GBx1	21.5" FHD	Touch	2.0M	500G Hybrid	DVD±RW	GT 720A	N2230	Media	UltraFlex	USB	1-year	Win7 Pro64 DG	08/27/13
10BA00AFUS	i5-4430S	4GBx1	21.5" FHD	Touch	2.0M	500G 7200	DVD±RW	GT 720A	N7260	Media	Frame	USB	3-year	Win7 P64 DG Win8.1	02/17/15

● *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, **Intel HD Graphics 4400/4600** in processor, and **NVIDIA GeForce® GT 720A**, PCI Express® x16, **1GB** memory, DirectX® 11, external digital monitor support via HDMI, supports dual independent display; *Max resolution:* 1920x1080 (panel)@60Hz; 1920x1080 (HDMI)@60Hz
Display	**21.5"** (546.1mm) **Full HD 1080p (1920x1080) TFT color**, wide viewing angle (+/- 85°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector
Light sensor	None
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Monitor mode / computer mode button, volume up/down buttons, and power button
Disk	*Some:* SATA 3.0Gb/s, 2.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector and one SATA 3.0Gb/s connector on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel B85 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in
Side ports	Two USB 3.0 (one Always On USB 3.0), one headphone / microphone combo jack (stereo, 3.5mm), one optional media card reader
PCIe Mini Card	Two PCI Express® Mini Card slots
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V, Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283CG / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	None
Security chip	None
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), Lenovo® logo *Some:* Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
Mouse	*Some:* Enhanced Optical USB Mouse, black, Lenovo logo *Some:* Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Power supply	180 watts, autosensing, 92% PSU
Color	Business black color
VESA mount	Support VESA mount (100mm)
Dimensions and weight (without stand)	*Non-touch models (WxDxH):* 21.02" X 1.91" X 15.20"; 534mm X 48.5mm X 386 mm 14.55 lb (6.6 kg) in maximum configuration *Touch models (WxDxH):* 21.02" X 1.95" X 15.20"; 534mm X 49.6mm X 386 mm 16.31 lb (7.4 kg) in maximum configuration
Stand	*Optional Frame Stand:* Adjustable between 10° and 65° (Tilt) *Optional Monitor Stand:* Adjustable between -5° and 45° (Tilt) *Optional UltraFlex Stand:* Tilt: 65° back, 0° forward; Lift: 110mm; Swivel: +/-90°; supports recline mode (from an upright position to an angled plane) and cable management
Limited Warranty	**1-year or 3-year**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

ENERGY STAR® 5.2-compliant
EuP 2013
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre E93z (10BA) - Multi-touch (NVIDIA) - TopSeller (Win8)

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[8]	Wide-screen display	Multi-Touch	Camera (mega-pixel)	Disk SATA GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Media reader	Stand type	Key-board/ Mouse	Global		Preload	Ann date *(mm/dd/yy)*
10BA000MUS	i5-4670S	4GBx1	21.5" FHD	Touch	2.0M	500G 7200	DVD±RW	GT 720A	N2230	Media	Frame	USB	None	Win8	Pro64	08/27/13
10BA001MUS	i5-4570S	4GBx1	21.5" FHD	Touch	2.0M	500G 7200	DVD±RW	GT 720A	N2230	Media	UltraFlex	USB	None	Win8	Pro64	08/27/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670S Processor** (**4 cores / 4 threads**, 3.1GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, **Intel HD Graphics 4400/4600** in processor, and **NVIDIA GeForce® GT 720A**, PCI Express® x16, **1GB** memory, DirectX® 11, external digital monitor support via HDMI, supports dual independent display; *Max resolution:* 1920x1080 (panel)@60Hz; 1920x1080 (HDMI)@60Hz
Display	**21.5"** (546.1mm) **Full HD 1080p (1920x1080) TFT color**, wide viewing angle (+/- 85°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector
Light sensor	None
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Monitor mode / computer mode button, volume up/down buttons, and power button
Disk	SATA 3.0Gb/s, 2.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector and one SATA 3.0Gb/s connector on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel B85 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in
Side ports	Two USB 3.0 (one Always On USB 3.0), one headphone / microphone combo jack (stereo, 3.5mm), one optional media card reader
PCIe Mini Card	Two PCI Express® Mini Card slots
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V, Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283CG / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	180 watts, autosensing, 92% PSU
Color	Business black color
VESA mount	Support VESA mount (100mm)
Dimensions and weight (without stand)	*Non-touch models (WxDxH):* 21.02" X 1.91" X 15.20"; 534mm X 48.5mm X 386 mm 14.55 lb (6.6 kg) in maximum configuration *Touch models (WxDxH):* 21.02" X 1.95" X 15.20"; 534mm X 49.6mm X 386 mm 16.31 lb (7.4 kg) in maximum configuration
Stand	*Optional Frame Stand:* Adjustable between 10° and 65° (Tilt) *Optional Monitor Stand:* Adjustable between -5° and 45° (Tilt) *Optional UltraFlex Stand:* Tilt: 65° back, 0° forward; Lift: 110mm; Swivel: +/-90°; supports recline mode (from an upright position to an angled plane) and cable management
Limited Warranty	**1-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 8 Pro 64-bit

Web install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage System Update
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Lenovo Solutions for Small Business
- Nitro Pro
- AccuWeather
- Norton™ Studio

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

ENERGY STAR® 6.0-compliant
EuP 2013
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced August 27, 2013

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ThinkCentre E93z (10BH)

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[8]	Wide-screen display	Multi-Touch	Camera (mega-pixel)	Disk SATA GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Media reader	Stand type	Key-board/ Mouse	Preload	Ann date *(mm/dd/yy)*
10BH0004US	i3-4130	4GBx1	21.5" FHD	None	2.0M	500G 7200	DVD±RW	HD 4400	N2230	Media	Frame	USB(slim)	Win7 P64 DG Win 8	07/15/14
10BH0005US	i5-4430S	4GBx1	21.5" FHD	None	2.0M	500G 7200	DVD±RW	HD 4600	N2230	Media	Frame	USB(slim)	Win7 P64 DG Win 8	07/15/14
10BH0006US	i5-4430S	4GBx1	21.5" FHD	None	2.0M	500G 7200	DVD±RW	HD 4600	N2230	Media	UltraFlex	USB(slim)	Win7 P64 DG Win 8	07/15/14

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX® 11.1, external digital monitor support via HDMI, supports dual independent display; *Max resolution:* 1920x1080 (panel)@60Hz; 1920x1080 (HDMI)@60Hz
Display	**21.5"** (546.1mm) **Full HD 1080p (1920x1080) TFT color**, wide viewing angle (+/- 85°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector
Light sensor	None
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Monitor mode / computer mode button, volume up/down buttons, and power button
Disk	SATA 3.0Gb/s, 2.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector and one SATA 3.0Gb/s connector on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel B85 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in
Side ports	Two USB 3.0 (one Always On USB 3.0), one headphone / microphone combo jack (stereo, 3.5mm), one optional media card reader
PCIe Mini Card	Two PCI Express® Mini Card slots
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V, Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283CG / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	None
Security chip	None
Keyboard	*Some:* Lenovo® Slim New F5 USB Keyboard (USB connector), black *Some:* Preferred Pro USB Keyboard (USB connector), Lenovo logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Color	Business black color
VESA mount	Support VESA mount (100mm)
Dimensions and weight (without stand)	*Non-touch models (WxDxH):* 21.02" X 1.91" X 15.20"; 534mm X 48.5mm X 386 mm 14.55 lb (6.6 kg) in maximum configuration *Touch models (WxDxH):* 21.02" X 1.95" X 15.20"; 534mm X 49.6mm X 386 mm 16.31 lb (7.4 kg) in maximum configuration
Stand	*Optional Frame Stand:* Adjustable between 10° and 65° (Tilt) *Optional Monitor Stand:* Adjustable between -5° and 45° (Tilt) *Optional UltraFlex Stand:* Tilt: 65° back, 0° forward; Lift: 110mm; Swivel: +/-90°; supports recline mode (from an upright position to an angled plane) and cable management
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

ENERGY STAR® 6.0-compliant
EuP 2013
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre E93z (10BK) - Multi-touch (NVIDIA)

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[8]	Wide-screen display	Multi-Touch	Camera (mega-pixel)	Disk SATA GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Media reader	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
10BK0007US	i5-4430S	4GBx1	21.5" FHD	Touch	2.0M	500G 7200	DVD±RW	GT 720A	7260 b/g/n	Media	UltraFlex	USB(slim)	None	Win7 P64 DG Win 8.1	07/15/14
10BK0006US	i3-4130	4GBx1	21.5" FHD	Touch	2.0M	500G 7200	DVD±RW	GT 720A	7260 b/g/n	Media	UltraFlex	USB(slim)	None	Win7 P64 DG Win 8.1	07/15/14

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, **Intel HD Graphics 4400/4600** in processor, and **NVIDIA GeForce® GT 720A**, PCI Express® x16, **1GB** memory, DirectX® 11, external digital monitor support via HDMI, supports dual independent display; *Max resolution:* 1920x1080 (panel)@60Hz; 1920x1080 (HDMI)@60Hz
Display	**21.5"** (546.1mm) **Full HD 1080p (1920x1080) TFT color**, wide viewing angle (+/- 85°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector
Light sensor	None
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Monitor mode / computer mode button, volume up/down buttons, and power button
Disk	*Some:* SATA 3.0Gb/s, 2.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector and one SATA 3.0Gb/s connector on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel B85 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in
Side ports	Two USB 3.0 (one Always On USB 3.0), one headphone / microphone combo jack (stereo, 3.5mm), one optional media card reader
PCIe Mini Card	Two PCI Express® Mini Card slots
PCIe WLAN	*Some:* 11b/g/n wireless, Intel Centrino® Wireless-N 2230, Wi-Fi + BT4.0 combo, 2x2 *Some:* 11b/g/n wireless, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V, Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283CG / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	None
Security chip	None
Keyboard	*Some:* Lenovo® Slim New F5 USB Keyboard (USB connector), black *Some:* Preferred Pro USB Keyboard (USB connector), Lenovo logo *Some:* Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
Mouse	*Some:* Enhanced Optical USB Mouse, black, Lenovo logo *Some:* Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Power supply	180 watts, autosensing, 92% PSU
Color	Business black color
VESA mount	Support VESA mount (100mm)
Dimensions and weight (without stand)	*Non-touch models (WxDxH):* 21.02" X 1.91" X 15.20"; 534mm X 48.5mm X 386 mm 14.55 lb (6.6 kg) in maximum configuration *Touch models (WxDxH):* 21.02" X 1.95" X 15.20"; 534mm X 49.6mm X 386 mm 16.31 lb (7.4 kg) in maximum configuration
Stand	*Optional Frame Stand:* Adjustable between 10° and 65° (Tilt) *Optional Monitor Stand:* Adjustable between -5° and 45° (Tilt) *Optional UltraFlex Stand:* Tilt: 65° back, 0° forward; Lift: 110mm; Swivel: +/-90°; supports recline mode (from an upright position to an angled plane) and cable management
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

ENERGY STAR® 6.0-compliant
EuP 2013
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

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ThinkCentre - TopSeller Services

The TopSeller™ services are designed to make selling the popular services with TopSeller systems faster and easier. Channel partners should always use TopSeller services with TopSeller systems. TopSeller services part numbers typically provide enhanced discounts and incentives for channel partners. The TopSeller service delivered to the customer is identical to the service delivered using a standard service part number. In situations where a desired service is not offered under a TopSeller service part number or the sale requires a special bid process, use available standard service part numbers.

TopSeller services should always be offered by channel business partners with TopSeller hardware, unless the sale requires special bid pricing or the desired service is not offered as a TopSeller service part.

For more information see:

http://www2.partnerinfo.lenovo.com/partners/us/resources/salestoolkit.shtml

TopSeller service upgrade options for ThinkCentre M series

ThinkCentre desktop with 1-year Onsite warranty

LOR = Lenovo Onsite Repair

3-year LOR 9x5 Next Business Day	04W8710
4-year LOR 9x5 Next Business Day	04W8711

ThinkCentre desktop with 3-year Onsite warranty

LOR = Lenovo Onsite Repair

4-year LOR 9x5 Next Business Day	04W8712

TopSeller service upgrade options for ThinkCentre A series and Edge series

ThinkCentre desktop with 1-year Onsite warranty

LOR = Lenovo Onsite Repair

3-year LOR 9x5 Next Business Day	04W8710
4-year LOR 9x5 Next Business Day	04W8711

ThinkCentre desktop with 3-year Onsite warranty

4-year LOR 9x5 Next Business Day	04W8712

TopSeller Priority Support

• 24x7 support with priority routing and advanced level technicians

ThinkCentre desktop with 1-year Onsite warranty

Add to 3-year warranty coverage - 3-year Priority Support*	04W8721
Add to 4-year warranty coverage - 4-year Priority Support*	04W8722

ThinkCentre desktop with 3-year Onsite warranty

Add to 3-year warranty coverage - 3-year Priority Support*	04W8721
Add to 4-year warranty coverage - 4-year Priority Support*	04W8722

* Covered machine must have concurrent warranty coverage.

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Partial list of Lenovo Services[7] for ThinkCentre desktops

For more information see:
http://www.lenovo.com/services_warranty/us/en/index.html

Lenovo service upgrade options for ThinkCentre M series

ThinkCentre desktop with 1-year Onsite warranty

Models with 7-digit MTM

2-year Onsite 9x5 Next Business Day	41C9187
3-year Onsite 9x5 Next Business Day	41C9188

Models with 10-digit MTM

2-year Onsite 9x5 Next Business Day	5WS0D80992
3-year Onsite 9x5 Next Business Day	5WS0D80967

ThinkCentre desktop with 3-year Onsite warranty

Models with 7-digit MTM

4-year Onsite 9x5 Next Business Day	41C9194

Models with 10-digit MTM

4-year Onsite 9x5 Next Business Day	5WS0D81063

Lenovo service upgrade options for ThinkCentre A series and Edge series

ThinkCentre desktop with 1-year Onsite warranty

LOR = Lenovo Onsite Repair

2-year Onsite 9x5 Next Business Day	45K5949
3-year Onsite 9x5 Next Business Day	45K5950

ThinkCentre desktop with 3-year Onsite warranty

LOR = Lenovo Onsite Repair

4-year Onsite 9x5 Next Business Day	45K5957
5-year Onsite 9x5 Next Business Day	45K5963

Lenovo Priority Support for enterprise customers

• 24x7 support with priority routing and advanced level technicians

ThinkCentre desktop with 1-year Onsite warranty

Add to 3-year warranty coverage - 3-year Priority Support*	45J9087

ThinkCentre desktop with 3-year Onsite warranty

Add to 3-year warranty coverage - 3-year Priority Support*	45J9088
Add to 4-year warranty coverage - 4-year Priority Support*	45J9089
Add to 5-year warranty coverage - 5-year Priority Support*	45J9090

* Covered machine must have concurrent warranty coverage.

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Withdrawn Product Books

Disclaimer
Lenovo provides the information in the Product Specifications Reference (PSREF) withdrawn product books on an "AS-IS" basis. Because the actual products have been withdrawn from marketing, the information in these withdrawn product books is no longer maintained or updated. The referenced footnote numbering may not correspond with the listed footnotes.

PSREF books for the withdrawn systems:
http://www.lenovo.com/psref/psrefs_withdrawn.html

Availability: All offers subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time, without notice. Lenovo is not responsible for photographic or typographic errors.

Warranty: For a copy of applicable product warranties, go to http://support.lenovo.com/en_US/product-service/warranty-status/WarrantyPolicies.page . Lenovo makes no representation or warranty regarding third party products or services.

[1] **Limited warranty:** Support unrelated to a warranty issue may be subject to additional charges.

[2] **Hard drive:** GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.

[3] **Limited onsite service systems** are designed to be repaired during the applicable warranty period primarily with customer-replaceable parts provided by Lenovo. Lenovo will only send a technician onsite to perform a repair if (a) remote telephone diagnosis and/or customer part replacement are unable to resolve the problem, or (b) the part is one of the few designated by Lenovo for onsite replacement. For a list of onsite replaceable parts, contact Lenovo. Support unrelated to a warranty issue may be subject to additional charges. Lenovo onsite repair (LOR), 8 am to 5 pm, Monday through Friday coverage excluding holidays, next business day (NBD) response time.

[4] **CD and DVD list** maximum rates; rates are variable and are often less than the maximum.

[5] **Included software** may differ from its retail version (if available), and may not include user manuals or all program functionality. License agreements may apply.

[7] **Lenovo Services:** These services are available for machines normally used for business, professional, or trade purposes, rather than personal, family, or household purposes. Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees. If the machine problem turns out to be a Customer Replaceable Unit (CRU), a part will be express shipped to you for quick replacement. Onsite 24x7x2-hour service is not available in all locations. P&L means parts and labor. P/U means pick-up. See lenovo terms and conditions for complete details and restrictions.

[8] **Memory:** For PCs without a separate graphics card, memory supports both system and video. Accessible system memory may be up to 384MB less than the amount stated, depending on video mode.

[9] **International Warranty Service** is available in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.

[10] **Modem speeds:** Public network download speeds are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.

[11] **For combination drives**, maximum speeds only are given in the following order: CD read, CD write, CD re-write, DVD read.

[12] **The IEEE 802.11n specification (MIMO)** has been finalized and is currently in IEEE 802.11n-2009 release. The maximum speed depends on the access point device and the number of integrated antenna used for connection. An adapter with 11a/b, 11a/b/g, 11b/g/n, or 11a/b/g/n can communicate on any of its supported formats.

[13] **Wireless capability:** Requires compatible wireless-enabled options sold separately.

[14] **Response times may vary.** May exclude some holidays. Telephone support may be subject to additional charges.

[15] **Update Connector** is available at no charge to registered customers during the limited warranty period. Line charges may apply.

[16] **Embedded Security Subsystem** works with optional VPN software.

[18] **Embedded Security Subsystem** may require download of client security software from the Web.

[19] **Asset ID** allows system-specific information to be stored in a chip inside the system; it does not have any radio frequency support.

[20] **Operating System:** Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Refer to lenovo.com/pc/support and enter your machine type and model number for more information.

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